

TEXTILE PAPER, DEVOTED TO THE UPBUILDING OF THE DEVELOPMENT OF THE MATERIAL RESOURCES OF THE SOUTH

Vol. 6. No. 16.) WEEKLY.

BALTIMORE, NOVEMBER 29, 1884

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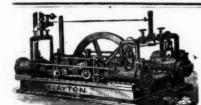
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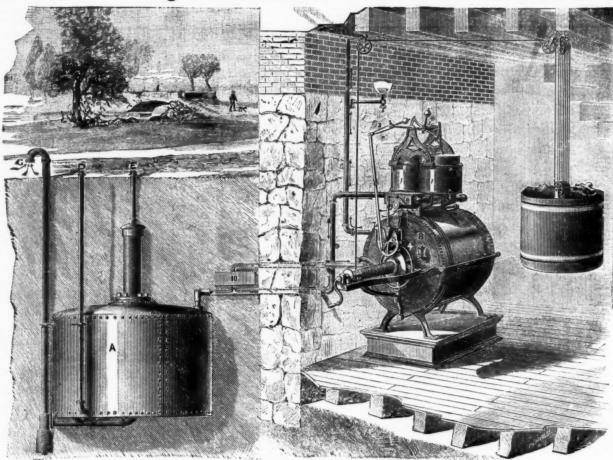
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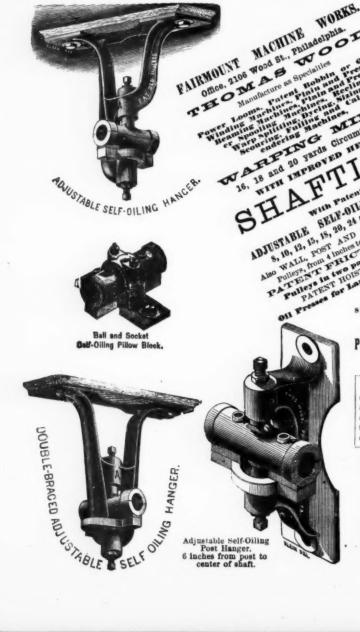
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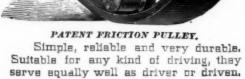
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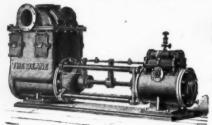
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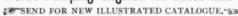
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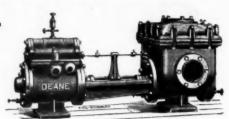


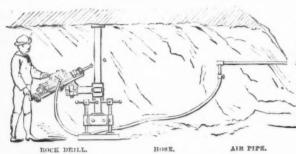
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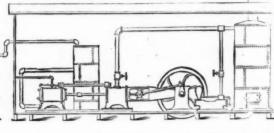
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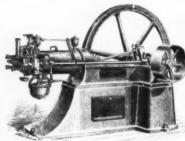


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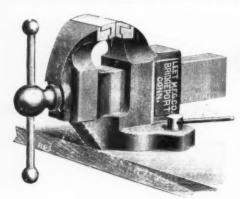
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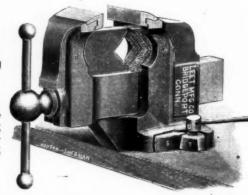
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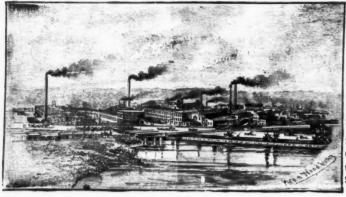
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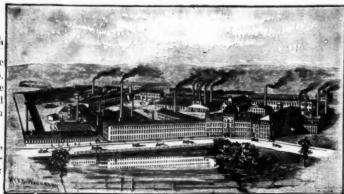
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BALTIMORE, NOVEMBER 29, 1884.

ELSEWHERE will be found the prospectus of a book on the South shortly to be issued by the publishers of the MANUFACTURERS' RECORD. Its aim and scope are fully set forth in the advertisement, of which we ask a careful reading. The South is now a point of attraction for the whole world. Capitalists of our own and other lands are looking for investments in its beds of coal, its exhaustless mines of iron ore, its vast forests of timber, in the manufacture of its cotton, in the utilization of the water power afforded by its countless streams. Mechanics are turning to the South for employment in its promising and prosperous mills and factories and furnaces and machine shops, Farmers are being attracted by its fertile soils, its freedom from rigorous winters, the multiplicity of crops of which its lands are capable.

It is for these that "THE NEW SOUTH" is published, as well as for all others who desire information bearing on the resources and attractions of the Southern States. It is a book that should be read by every man in the South and by every one who has any idea of ever locating there.

THE Current of Chicago says that it "can state on the authority of many of the ablest bankers in the country that a general business revival of the safest and most conservative character is already in progress. It is idle for any partisan to claim that such revival is due to this or that. It is here.—That is enough. All good men are glad of it."

Unjust Statements about Anniston and its Founder.

It is fortunate for the South that she has so few papers like the *Star*, of Wilmington, N. C., and yet it is unfortunate that there are any at all of that class. As an illustration of the character of that paper, we extract from a long editorial in its issue of November 18 the following:

Some one sent us a marked copy of Hot Blast, a very "hot" protection paper published at the mushroom town of Anniston, Alabama. The copy had marked a five column "blast" from a protectionist, by name Samuel Noble. It is in the usual blind, one-sided style of writers who can see no immorality or rascality in the Rob Roy doctrine of taking so many dollars from the pockets of five men to enrich the sixth. Mr. Noble is an eager advocate of "the good old rule"—

"The simple plan,
That they should take who have the power,
And they should keep who can."

We have not undertaken to wade through the platitudinous article. We suppose that the writer knows no more of political economy than the authors of his school."

And then follows much more of the same kind.

Doubtless the editor of the Star thought that he was very funny when he got off that play on the words "Hot Blast," and yet it would hardly strike any one else in that way. And then how he discourses about the 'usual blind, one-sided style of writers," forgetting that others have as much right to their opinion as he has. So great, however, is the wisdom of the editor of the Star that he is able to criticize the article in question without having "undertaken to wade through" it. He condescendingly supposes, however, that Mr. Noble "knows no more of political economy than the authors of his What a great pity, indeed, school." that Mr. Noble and all the rest of the world have not been able to sit at the feet of this modern Gamaliel and gain wisdom.

The Star begins its tirade by speaking of the "mushroom town of Anniston," a totally uncalled for and untruthful slur upon one of the most prosperous towns in the United States. and one that has grown steadily and solidly for some years. Not only Alabama, but the whole South, may well take pride in pointing to Anniston as a sample of what can be done in that section. And the man to whom the credit of founding and building up Anniston is due, is Mr. His magnificent Samuel Noble. work may well challenge the admiration of every one, and we only wish that there were more to follow his example. The South to-day needs such men, and despite the silly talk of such a journal as the Star, we rejoice to know that Mr. Noble is everywhere, South and North, esteemed as one of the foremost workers in the great industrial development of the South, and well worthy of the highest praise. His work is a monument to him that shall endure long after he has passed away.

We do not know Mr. Noble personally, and are under no obligations

whatever to him, but we cannot permit such unjust statements as those of the Star to go unchallenged. Possibly our political ideas are not in harmony with Mr. Noble's, but if not, what of that? It is not Mr. Noble individually that we speak for, so much as it is for that class of earnest workers whom he represents, who are rapidly placing the South in the front rank of industrial countries, and who are heartily in favor of a protective tariff, and on this point we are thoroughly in sympathy with him, for we believe that the South needs protection to-day far more than New England. If Southern business men, the merchants, the bankers, the farmers, the mechanics, who see what such men as Mr. Noble are doing for the South, supported such papers as the Star in its unjust attacks upon them, we would have but little faith in the future of that section, but we are glad to know that such is not the case, and that Southern men and Southern papers heartily welcome every man of good character who comes among them to find a home, regardless of his politics.

A Southern Paper's Views on the Tariff.

It is with much pleasure that we note the rapid growth of protective tariff ideas in the South, because we believe that the progress of that section depends very largely upon the maintenance of protection. And it is especially gratifying that the sentiments in favor of protection are not confined to one party, but that in the Demorcratic party,-the party which is so largely in the majority in the South, and which has usually been regarded as in favor of free trade,there is a steadily increasing number of strong protectionists. Many of the best Democratic papers of the South are taking the lead in this matter, and their influence must be for good. As a sample of how this feeling is growing, the Gazette, of Washington, N. C., heretofore against a protective tariff, asks whether free trade or protection is right, and at the same time says in its last issue:

"We think the Democratic party had best abandon altogether any free trade or "tariff for revenue only" theories, and make a stand hereafter for the great manufacturing and industrial interests of the country. It has never been the enemy of, but rather has en deavored to promote the best interest of labor and capital; but in its recent career as the great reform party of retrenchment and economy, the tendency has been too much toward free trade. If protection is indeed necessary to foster our manufacturing enterprises, we are for protection. If protection will increase the industrial activity of the South, develop its manufacturing enterprises and induce the investment of capital, if it will add to our wealth and make our people an important factor in the world's commerce, we are for protection. * * * It is claimed, and properly too, that manufactures have made the North and West wealthy. These are needed in the South, if our press and leading men are to be believed. After an experience of many years the North claims that protection made it a manufacturing section and insists that it is still necessary to foster and maintain them. If these things are true, are not the Southern people fools thus to retard their own prosperity?"

These things are true, and, as a protective tariff was necessary to develop the manufacturing interests of the North, so it is needed to develop the same industries in the South.

THE enterprise displayed by the Southern towns that have lately suffered so severely by fire in their rebuilding operations, very forcibly tells of the wide-awake character of Southern business men of late years. The ashes of Palatka's big fire were hardly cold before those who were burned out were hard at work preparing to erect new and larger buildings. In Goldsboro, N. C., where so large a part of the town was burned, the same energy was displayed. Goldsboro Messenger lost \$20,000 by the fire, its new building, presses, &c. having been destroyed, but it came out on time and gave particulars of the fire, even if it was necessary to print on a sheet of paper a little smaller than a letter sheet. Some years ago the Messenger's building, as well as other property in Goldsboro, was burned one morning, but by the afternoon the editor had scraped up a little type and an old press, and stood right out on the street printing his paper.

Distress Among English Ship-Builders.

[By Cable to Daily Papers.]

LONDON, November 22.—The distress among the English ship-building workingmen has increased. At the ship-yards on the rivers Tyne, Clyde and the Mersey there is scarcely one-fourth of the possible working force and power now in effective operation.

Will our free trade friends please tell us how it is possible for such things to occur in free trade Great Britain. Why should we accept Great Britain's free trade teachings if she can show no better condition of affairs than that.

A DISPATCH from Birmingham, Ala., says the contrast between the mining and manufacturing industries of this section and those of the North has been strongly brought out in the press dispatches during the past few days. In the North, iron mills and mining companies are either shutting down or reducing wages, while in the Birmingham district, all the furnaces and mills are actively at work on full time, and at every coal mine in the Warrior coal field there is a demand for more miners.

THE future home for the young men of the country, says the Coal Trade Journal, is in the South, rather than in the West. The West is an agricultural country, where, over its greater portion, coal, ore and lumber are scarce. Those going thither must raise corn or wheat. Going still farther west, they must become sheep or cattle raisers, at from 1,000 to 3,000 miles removed from the centres of civilization. In the South it is different. While primarily an agricultural section, it has abundance of all minerals and lumber.

Notes * From * Dixie.

BY CHAS. H. WELLS.

Hickory, North Carolina, is one of the many Southern towns where capital is needed, and where manufacturing industries of almost any kind would pay very handsomely. In the immediate vicinity of the village are several fine locations for factories, and the cordial, open-handed people of the town will gladly welcome capitalists in their midst. The Piedmont wagon factory at that place is an example of what can be done there when brains and money are united. The "Hickory" wagons" are seen everywhere in the South, from Richmond to Key West, and are almost as well and favorably known as the famous "Studebaker" or "Tennessee" wagons.

A dozen or more people in North and South Carolina have begged me to write up that "gigantic organ dealer," Daniel F. Beatty, of Washington, N. J., who is now carrying on operations in the region of the tar heels. His latest scheme for getting money is to offer the unsophisticated rustics a due bill for \$90 for \$75 in cash, provided the sum is sent him within ten days from the time the offer is made This catches a good many people. He advises the innocent to borrow a part of the money from friends if the whole amount cannot be raised in any other way. In his very seductive offer he does not state when he will ship the organ.

Speaking of advertising, it may be as well to remark right here, that the "Dixie Notes" are not designed to fill the part of an advertising column, and all parties desiring free puffs and complimentary notices of their wares—unless such notices may be legitimately classed as interesting gossip—are respectfully referred to the publishes of this paper. This is in answer to several "concerns" in Georgia, Alabama and Tennessee who have been offering "inducements" for free puffs in this column.

Now that the election excitement has blown over, trade all through the South has begun to revive, merchants are ordering their new goods and "everything looks lovely." There have been at least \$300,000 worth of powder and fire works discharged within the past fortnight—and yet people say that money is scarce in the South. Well, some of these good folks who aspire to post offices, marshal-ships, et cetera, will get left, and those who are sticking to their farms and leaving politics severely alone are the best off after all.

The cotton crop report from what is known as the Memphis district—comprising West Tennessee, North Alabama, North Mississippi and North Arkansas—has been made. There is a reduction of fourteen per cent. over last year's crop, owing to bad weather and unfavorable conditions during the picking. The report says that the cotton will be marketed with more than the usual rapidity.

One of the St. Louis papers says there is an increasing demand for Southern iron in New England. The Virginia iron is said to equal that of Pennsylvania and is from fifty to seventy-five cents a ton cheaper,—because labor and coal in Virginia are cheaper than in Pittsburgh or Reading. Some Georgia iron is sent to Boston, but the freight of 83 a ton takes off most of the profit. Alabama has the advantage of most of the Southern States in this respect, because she has a market at Mobile as well as excellent facilities for cheap shipment via boat or rail either from Mobile or Birmingham.

The cotton mills at Piedmont, S. C., about twelve miles from Greenville, have been paying the Columbia and Greenville Railroad 83 cents a bale for hauling cotton that distance and 17 cents drayage, making the cost of each bale from Greenville—the buying point—to the mill, just one dollar. Colonel Hammett has just made a new arrangement whereby he gets his cotton hauled by wagon all the way from Greenville to the mill for fifty-cents a bale, thereby saving tifty per cent, on each bale. The new scheme, Colonel Hammett says, will save the mill about \$2,000 a year.

The State Fair at Columbia, S. C., last reek was a decided success, although the attendance fell below the estimates. On Thursday, the "big day," there were probably five thousand people present. The races by the same horses that were exhibited at Greenville a week previously were attractive, and the art display was a feature of the exhibit. There was one objection,-the same one that was raised at Greenville,there was too much horse-racing and gambling and too little attention given to useful and instructive exhibits. The fairs next year will be dismal failures, unless all this is remedied. South Carolina could make an exhibit of native woods, cereals and fruits that could not be surpassed by any State in the Union. Why is it not done? Horseracing may be a necessary "adjunct" to a fair, but it will not invite capital to locate in the State, nor will it improve the present 'lackadaisical" methods of farming.

Tobacco is the lever by which the Western counties of North Carolina are to-day being lifted to prosperity and wealth. Some parties have recently located near Newton in Catawba county, and their first crop of 'the weed" was so fine that next year they will go into the business on a large scale. The Catawba tobacco is of a finer vellow color and is not so strong as the famous Buncombe crop. There is no reason why, in a few years, the thriving village of New should not be the centre of a large tobacco manufacturing region. The farmers of Catawba have money, brains, and enough Dutch blood in them to be energetic, therefore in a few more years I predict Newton will be a tobacco depot of importance.

Mr. M. O. Sherrill, just elected State Senator from the Catawba district, is the owner of a fine tobacco establishment that can be used either as a warehouse or factory, It has one of the finest "dry rooms" in the State, constructed on scientific principles. The building is of brick and wood, three stories and about 50x50 feet. The water supply is excellent, and there are two railroads within a hundred vards of the coor One railroad runs to Louisville, Ky., the other to Columbia, S. C., and Southern points. To an energetic man with \$10,000 or \$20,000 who will go into business in the right way, Mr. Sherrill will sell this establishment on reasonable terms. His duties as State Senator take him from home much that he has no time to look after the factory and will therefore sell to responsible parties. He may be addressed at Newton.

Capt. Allen of the Richmond and Danville Pullman service tells a good story. An old man got on his car at Montgomery to go to Washington. He was evidently from the country and had never been on a sleeping car before; he paid the extra fare in silver dollars,—extracted from a primitive looking leathern wallet,—and, by and by, after the porter had made up the beds, the old man looked anxiously around as if uncertain as to how to get to bed with propriety. The other occupants of the car saw him go out of the rear door on to the platform, and after a period of ten minutes or more the door opened, a voice called out: "All you uns look out I'm a comin'," and the old man dashed throught he car with all his clothes, shoes and other "fixings" in his hands. The scene may be imagined. The convulsed spectators heard the old man say, soliloquizing, as he pulled down the curtains:—"Wall! ol' Arkansaw may be a leetle slow but he gits thar jest as hard!"

Preparations for the great World's Fair at New Orleans are now so far advanced that success may be predicted for the enterprise. All the departments will be well filled, and I am told that the timber display from the Carolinas will surpass anything of the kind ever be tree attempted. The result of the fair ought to be the establishment of closer commercial relation between the Northern and Southern States.

Tourists who are going to the exposition will find some little difficulty in securing board and rooms unless such arrangements are made some weeks in advance. It has been my experience in New Orleans, that the pleasantest way to live is to secure a nice room on Camp Magazine or some of the uptown streets and take your meals out. can breakfast in a novel (and delightful) fashion at the quaint old French market down at the foot of Canal street for twenty-five cents. The coffee of this market is world-renowned. Moreau's restaurant up-town, near the Scott statue, is the Delmonico of the Cresent City, while smaller eating houses abound. To be in style you must only eat two meals a daybreakfast at nine and dinner at five. Very few boarding houses furnish lunch at noon

Col. H. P. Hammett, president of the Piedmont, S. C., cotton mills, tells me he will have a fine exhibit at New Orleans of the various products of his mills. The little village of Piedmont is a model. No one is allowed to touch liquor under any circumstances; the houses are as neat as new pins nusical instruments abound; the free ing room is the centre of attraction, and the moral tone of the place is extraordinary, The liabrarian at the reading room says Scott and Dickens are more read than any other books of fiction, while Moore, Tenny son and Bryant are the favorite poets. Are not these elevated literary tastes for a manufacturing hamlet in the "fastnesses" of South Carolina?

DRIFTWOOD,

The Raleigh State Exposition was the means of drawing about \$10,000,000 of capital to North Carolina.-Several large tobacco warehouses in Asheville are for rent. -A shock similar to an earthquake passed over Buncombe county one day last week. and seared the people a good deal. caused no damage to property.——Chunks of dogwood, two feet long and six inches square, suitable for making shuttles, sell for \$2 each in Western North Carolina, There is a fine opening for a flouring mill at Newton, N. C., as the surrounding country produces vast quantities of fine wheat. The management of the Cape Fear and Yadkin Valley Railroad has issued a neat little book for the use of capitalists who desire to invest in the South. Address the company's offices at Fayetteville, N. C .-The men who make jugs at Jugtown, N. C., earn \$3 to \$4 a day each when times are The mud from which the jugs are made costs only \$2 a wagon load .- The reat drouth in the Carolinas, that begun in July, has at length been broken by a heavy

Read the Prospectus of "THE NEW SOUTH," in the advertising columns.

The Rapid Growth of Asheville, North Carolina.

ASHEVILLE, N. C., November 22, 1884.

Editor Baltimore Minufacturers' Record:

Being a regular reader of your valuable and public-spirited paper, I wish to say a few words regarding the remarkable increase in inhabitants, business and manufactories in Asheville, all of which are of such recent date as to be simply wonderful, even when three such incentives to prosperity are given as railroad, summer visitors, and tobacco.

Asheville has long been known as a resort for persons with disease of the lungs, dyspepsia, and other complaints,-great numbers of whom are either cured, or so much benefitted, that they buy land and enter into business of different kinds. Consequently real estate has risen to double, and in many cases, has trebled in value, and it is not unusual to see from 50 to 100 houses building during a short ride through the town. The census of 1880 gave a total of 2,616 inhabitants; that for 1883 gave a total of 3 874, and it is estimated that by the end of the present year a careful census will give 5,000 or over. If it is taken into consideration that those who come, stay and invest money, the above figures give great encouragement.

Tobacco.—There are four immense ware-houses for its sale, and during the season there are buyers from all parts representing the principal factories in the country. An English firm is also represented by heavy buyers of the best grades. We have two factories of smoking tobacco, which do a large business, and another just completed, and three of chewing which also do a large trade, though they by no means begin to consume a fourth of the tobacco sold on the market, and more factories could be established with great profit, as the owners would save transportation, which is no small matter.

Tobacco planting .- Though a long and troublesome crop, tobacco pays much better than cotton, and as it is now admitted that, with the help of fertilizers, just as good crops can be made on old as on new land. A much larger acreage is planted every year, and many farmers who four years ago could scarcely clothe themselve, are now making money 'hand over fist," and the blue and butternut-colored clothes of our countrymen are rapidly giving place to the tight pants and Derby hat of the present day. There are fine openings for manufactories of every kind, as the French Broad river, which runs within a mile of the town, is an unfailing source of power, with many desirable locations for mills on its banks, and lumber can be floated from all parts of the country above with very little cost. So much has been said of the variety, quality and quantity of the lumber which is furnished by the forests of western North Carolina, that I will only say it is all true and the supply is almost inex-

Mining .- To be brief I will quote from Prof. Kerr's Geology of North Carolina for 1875, appendix C., in which he says "from want of time his list necessarily was very imperfect; it showe! however a variety of commercially important minerals, and ores which is greater than any other State of the He mentions the names of 140 different kinds, the majority of which are found in the western part of the State .-Before closing this short and consequently incomplete summary I wish to say that all parties desiring more thorough information of Asheville and vicinity should procure a copy of the Directory and Gazetteer of Asheville and Buncombe county, which is very complete up to 1884, and for information on geology and mineralogy Prof. Kerr's book already refered to. The hand-book of North Carolina will also give most valuable and reliable information of all points concerning the State, and can be procured by application to the Department of Agriculture, Raleigh, N. C.; also Prof. Kerr's book, b ti S

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Any one after reading the above mentioned books will be forced to exclaim "North Carolina is a world in herself."

TAR HEEL.

P. S .- Here in Asheville, Col. W. E. Williamson has just finished a large factory for tobacco; Col. Ray has an immense one nearly finished; there is an \$8,000 Presbyterian church being built; 50 feet has been added to the Farmers' Warehouse, and Hatch & Riley have started a carriage and wagon fictory (steam)

"THE NEW SOUTH" is designed to meet a want that has now become imperative for some reliable and unbiased source of information as to different sections of the South.

DYERSBURG, TENN., Nov. 17, 1884. Editor Baltimore Manufacturers' Record:

A. M. Stevens is now converting his grist mill into a 100 barrel, full roller process, mill on the Case Manufacturing Co. system, and will be running in about 30 days. Within the next 30 days he will also put up a planing mill in connection with his lumber vard.

This is a good place for a cotton factory for spinning and making of coarse cotton goods, and for the manufacturing of the ordinary grades of furniture.

Referring to your remarks on the defeat of the railroad commission in this State, in your issue of November 15, there are two sides to that question. Question .- If it cost 50 cents per bale to carry cotton 100 miles, how much will it cost to carry it 75 Railroad says \$1.45. Railroad will go to the foot of the class, but rake in the currency all the same.

If our correspondent will study the railroad commission question carefully, we think he will be convinced that the good done by a commission is greatly overbalanced by the harm done to the whole State. We are no defenders of the unjust charges sometimes exacted by railroads, but we believe that freight rates can best be adjusted by competition. If we thought that a commission in every Southern State would increase the railroad mileage in each, and thus increase transportation facilities and build up the prosperity of the people, we would advocate a commission as earnestly as possible. In opposing commissions, as well as in all our other work, we are doing it simply because we feel thoroughly satisfied that it is for the good of the South .- Editor MANUFACTURERS'

Home Industry Foundry.

MOBILE, ALA., Nov. 17, 1884. Editor Baltimore Manufacturers' Record :

This establishment was destroyed by fire April 5th, 1884, at a loss of twenty-five thousand dollars. Insurance eight thousand seven hundred dollars. Rebuilt and in full operation October 1st, 1884, at a cost of forty thousand dollars. On 12th inst. fire-box of boiler collapsed with damage to property of eight thousand dollars; no loss of life; started engine and machinery again on 15th inst.; now running about half force; will run full force before 25th inst. About May 1st, 1884, the barrel and box factory and electric light plant of Hurley, Gray & Co., of this city, was burned; loss total; insurance partial; stave manufacturing department is now being rebuilt by a New York firm, superintended by E. R. Upham, with latest improved machinery and Westinghouse engines, of which several will be used.

Very respectfully, GEO. C. HYATT,

Southern Pig Iron in Philadelphia.

dence BALTIMORE MANUFACTUR-PHILADELPHIA, Nov. 24, 1884.

The Southern pig iron question has been talked about and written about a great deal of late. The facts are about these: Since the opening of the year about 20,000 tons of Southern iron have come into this market, of which 15,000 tons more or less came from Virginia, and about 5,000 tons from Alabama furnaces. Of late the demand for Southern iron in Western markets has fallen off considerably, and hence a market was sought for it here. One party contracted for 5,000 tons conditional on the samples being satisfactory. It was for pipes. The same firm is negotiating for 4,000 tons more Alabama iron. The New England and New York State demand for Southern iron is improving steadily, and with care these irons will gain in favor as they answer the requirements. Besides these, a great deal of Western iron is arriving and is liked. The Gem and Crozier, Va., brands sell here nearly as well as Lehigh irons, perhaps about 50 cents less, A week or ten days ago 270 tons of Virginia iron was divided out among the founders on trial, and the reports are all encouraging. The Lehigh companies are somewhat alarmed at this invasion, and are preparing to reduce cost of coal, ore and labor, in order to reduce cost of iron below Southern and Western. The Pennsylvania Railroad is attempting to fix a \$5.00 rate for pig iron from Alabama here, so as to compete with the rail and water routes. The present demand is largely accidental, and it depends on freight rates, cost at Southern furnace, care in managing furnaces, and enterprise generally to hold what is gained, and gain fresh ground. D.

"THE NEW SOUTH" will be a value. ble publication for all who want know what the South has to offer the capitalist, the settler, or t

Tin in North Carolina.

FIRE CREEK, W. VA., Nov. 20, 1884. Editor Baltimore Manufacturers' Record:

Dear Sir-We have had a discussion among ourselves here, as to whether "tin' had been found in the State of North Carolina in quantity paying to work. I claim that I have noticed in your columns that such was the case, but others say that I am mistaken, that the only tin found in the States in working quantities was in Colorado and Virginia. I may be mistaken in my assertion, however, and agreed to leave it to you. You will confer a great favor if you will advise me on this subject.

Yours truly, G. H. C.

In reply to the above we publish from our issue of October 25, the following: "In Cleveland county, N. C., is a vein of pure cassiteritethe purest vein of tin ore yet found in America. The metal may be chipped out and subjected to fierce heat and pure tin obtained.

The value of the North Carolina mine has been placed at \$200,000, and an offer of \$100,000 cash for the property has been made by English capitalists, who recently had some of the ore assayed, and found it richer than the richest tin ore found in the Cornwall (Eng.) mines. The mine was discovered by a young mineralogist from Morganton, who was hunting for specimens of tourmaline.

Every man in the South should have a copy of "THE NEW SOUTH." The price is low. See Prospectus published elsewhere.

Population.

What the South Needs and Manufactures Will Bring.

The MANUFACTURERS' RECORD has so persistently labored to impress upon South people the importance of increasing their non-agricultural population by building up their manufacturing industries-a thing that we believe can only be done by a protective tariff-that we take pleasure in republishing from the Memphis Avalanche a portion of a letter written by Mr. J. T. Trezavant, who shows, as we have so often done, the value of manufactures to the farmers. Mr. Treza-

The following tables, which have been carefully compiled from the census reports of 1880, will afford an interesting story for any one who wishes to learn why cold, bleak and comparatively barren New England so far surpasses sunny, fertile Alabama, Mississippi and Tennessee in population, wealth and political power. We see the people are there, and we know they are neither drawn nor held there by anything tempting in climate or soil. Then what is the magnet that draws and retains them? What is the cause which makes the poor, barren lands of bleak little Rhode Island worth \$90 per acre, while the rich, fertile lands of pleasant Alabama are worth but \$13 per acre?

Louisiana can raise corn, cotton, sugar, rice, in vast abundance, with roots of kinds, and yet her rich lands are valued at but \$20 per acre in 1880, while those of cold and comparatively unfertile Massachusetts are valued at \$75 per acre.

What causes this enhanced value of such poor lands? It is the presence of hundreds of manufacturing establishments, whose operatives must have, every day, large quantities of poultry, eggs, pigs, milk, butter, cheese, fruits, vegetables; and gardens and small farms all over Massachusetts are so strained to supply this daily demand of factory hands, that land is in great demand. As the quantity cannot be increased, the price goes up, and becomes higher and higher as large cities are built Would land in Massachusetts be worth anything without people? Would they be worth more than our lands if the population was no denser than it is with The South needs others to help her convert her products into wealth-others besides those engaged in raising them; and mills and factories and foundries, and all sorts of manufacturing establishments, will do for her just what they have done for the Eastern and Middle States-just what they are doing for Ohio, Indiana and Illinois now

Here is a table showing the population of four of the cotton States in 1860, 1870 and 1880, and of Massachusetts, Rhode Island, New York and Pennsylvania for the same years. Others might be embraced, but with like results:

TABLE A.

pulation per square mile in 1860, 1870 and 1880, as

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																				1860.	1870.	1880.
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Mississippi		۰	0	0 1			٠			0	۰					0	0	0	0	17	17	24
Louisiana			۰		. 0		0		a	.01	×			×			á			15	20	20
Massachusetts	. 0	9	0				۰	٠	٥	۰	0	D				۰		0		153	181	321
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New York		0	0 1					0							۰	۰		0	۰	82	-92	100
Pennsylvania.																				64	28	95

Here is another table, showing the value of the improved and cultivated land of these States in 1880: TABLE B.

Acres of improved land in cultivation in 1880, with value per acre.

STATES.	ACRES.	VALUE.
Alabama	6,375,000	\$13 00
Georgia	8,200,000	14 00
Mississippi	5,200,000	18 00
Louisiana	8,700,000	20 00
Massachusetts	2,130,000	70 00
Rhode Island	298,000	90 00
New York	7,700,000	60 00
Pennsylvania,	3,400,000	70 00
Ohio	8,000,000	65 00
Tennessee	8,500,000	25 00

Ohio and Tennessee have been added to this list, because both have long been regarded as grain states. Why is land in Ohio no more fertile than that in our State, worth \$65 per acre as against \$25 per acre in

Tennessee? Simply and only because Ohio had 78 and Tennessee 35 people to the square mile in 1880: Ohio with hundreds of manufactuing towns and villages whose inhabitants had to call upon farmers, gardeners, milk and butter men, poultry and egg men, fruit and vegetable men, to supply them with the food they needed, but which they had no time to produce. As stated at first, the South needs more whites; more of that industrious, educated, thrifty, intelligent people who have so added to the wealth and power of the eastern, middle and northwestern States; and the more factories, mills, foundries and workshops we have the of that population we shall have. Let any one so to Milburn's machine shops and see a busy town has sprung up around them and the Pioneer cotton mills within a year. With them has come a new demand n the farmers and gardeners for much more than they sold there before those works were established; and every good citizen in Shelby county would like to see works like these multiplied tenfold here and around here. These works are now in their infancy, not able to stand up against strong competition; and to let England bring into this country, on a "free trade" list, such articles as these works now can make with a little protection would simply be to sweep them all away. Mr. Young says:

"From 1850 to 1860 we had what was known as a low tariff, and during that decade the farm values of the country increased 103 per cent, while in the following decade they only increased 11 per cent., and from 1870 to 1880 but 37 per cent."

He cannot be ignorant that from 1860 to 1870 was the war decade of the South, and any increase in values at all is surprising. But his own statement shows that "the prosperity" of the South has not been "swept away," for he admits an increase in value from 11 to 37 per cent. in the decade of 1880 over that of 1870-only about 350 per cent of increased "prosperity" in ten years. Mr. Young should heed his figures, as they lead him into lamentable "blunders." He very justly complained of \$100,000,000 of coin being accumulated in the national treasury. Why does he not urge the abolition of the internal revenue tax on tobacco and whisky Why does he not do his district instice in supporting the educational bill by which the outh would get a pretty big slice of the \$70,000,000 to be divided among the States to educate the illiterate whites and blacks? Did he touch these two question in any of his speeches in or out of Congress?

The tariff is a local question and Mr Young should consult the interests of his constituents, whose enterprise and money build works which benefit thousands, while robbing no man of a dime or a meal. He isupposed to represent them and not himself.

MR. EGAN, president of the Eagan Co., Cincinnati, Ohio, writes: "The businesoutlook in the wood-working machinery line is only fair to middling. The manufacturers of any kind of wood work have a chance now, from all we see of the condition of things, to put in the latest improved improved machines at very low figures. We have managed to keep our force of men going, but it has only been by hard work and making new improved machines with the latest improvements and making prices low. Why, we are selling a better band saw now for \$125 than was ever sold before for \$250; also, planers, sand paper machines, scroll saws, tenon, friezing and moulding machines, self-feed rip and cross-cut saws, and many others of our latest improved and standard machines are put right down. Any one can now afford to throw away or sell the old clumsy, worn-out or inferior make of machines, and put in the latest improvements in wood-cutting machines, and be prepared to reap the benefits of their foresight, when the trade and boom commences, which is bound to come very soon."

CONSTRUCTION DEPARTMENT.

E PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

ALABAMA.

The Woodward Iron Co., of Wheeling, Ala., will undergo extensive improvements and considerable machinery has already been received for that purpose.

E. G. Stevens and F. L. Fenton, of Boston, have purchased fire brick works recently finished at Birmingham, Ala., and will put them in operation. Expect also to erect iron pipe works.

H. F. Debardeleben, of Birmingham, Ala, has contracts for a 15 mile railroad to be constructed from Birmingham to his Cahaba coal mines.

J. B. Wilkinson. Lauderdale, Ala., has partly rebuilt his saw and grist mill lately burned.

Judge Walker, Columbia, Ala., is erecting a bagging factory.

The Louisville & Nashville Railroad has commenced laying the foundation for a large freight depot at Birmingham, Ala.

It is stated that Gen, Samuel Thomas, of Pennsylvania, will shortly begin the development of 20,000 acres of coal and iron ore land which he owns in Alabama.

The Coosa Canal Company has been organized at Wetumpka, Ala., with H. G. McCall, president. Capital \$1,000,000. Will build canal from Wetumpka to a point near Gray's Ferry.

The Mobile Steam Laundry, Mobile, Ala., has added machinery to double its capacity.

ARKANSAS.

Monroe McCoy, Rondo, Ark., will rebuild ginnery lately burned.

Stewart & Hover, Rondo, Ark., have nearly finished their grist mill and gin.

The Crystal Ice Co., of Little Rock, Ark., lately organized, will commence building their factory immediately at Argenta, near Little Rock.

FLORIDA.

Macy & Co., who, as previously reported, are building gas works in Key West, Fla., expect to complete in 50 days.

Vincent & Son, Palatka, Fla., have started up their planing mill previously reported.

Harvey & Hillyard, Pensacola, Fla., who were reported some time ago as preparing to rebuild their carriage, sash and door factory, have commenced work on the buildings and will complete them soon as possible.

T. Brigham Bishop has purchased ground in Palatka, Fla., on which to build a large hotel.

The Thompson-Houston electric light will be introduced into Jacksonville, Fla., the machinery having been ordered.

The new Putnam hotel, to be built at Palatka, Fla.. in place of the one lately burned, will have 350 rooms and cost \$300,000.

GEORGIA

John T. Goodman, Gladesville, Ga., has rebuilt his ginnery burned some time since and will also rebuild his grist mill. Mr. G. H. Rawlins, Rome, Ga., would like to receive catalogues of manufacturers of machinery for hosiery and knit underwear.

Swift & Hamburger, Waynmanville, Ga., are putting a large amount of machinery into their cotton mill with a view to increasing its capacity.

H. F. Griffin, Jeffersonville, Ga., whose mill and gin were burned early in November, is rebuilding.

T. C. Mitchell and others are working up the company to build gas works in Thomasville, Ga., previously reported.

J. L. Chambers will erect a saw mill near Rome, Ga.

W. F. Bailey & Co., Bartow, Ga., whose saw and shingle mill was lately burned are rebuilding.

Col. V. L. Robertson, of Nacoochee, Ga., agent of Col. James Jaquess and Dr. James McGeary, of London, Eng., has leased the Sawnee mountain gold mining property, near Cumming, Ga. Will begin operations in a few weeks.

KENTUCKY.

Davis Woolery, Antioch Mills, Ky., is building a new mill.

Ed. Fulton & Co., Aberdeen, Ky., have purchased the Aberdeen Flour Mills and put in large amount of machinery.

Stephens, Taft & Co. are building a saw mill near Lynn, Ky., and Kinney & Kouns will put up one near the same place.

LOUISIANA.

The Monroe (cotton seed) Oil Mill, Monroe, La., reported burned last week with loss of \$100,000, will rebuild at once.

Foret Bros', sugar house at Thibodaux La,, badly damaged by storm.

C. Minnigerode, Jr., and others, New Orleans, La., have organized a company, capital \$65,000, to build a street railroad at once.

MARYLAND.

Henry Reckord & Son, of Reckord, Md., whose flour mill was burned some months ago, will rebuild in the spring.

MISSISSIPP

About 100 hands are employed in building the shops of the New Orleans and Northeastern Railroad at Meridian, Miss., previously reported. The main building is 317 feet long. These works will be completed this winter.

E. Moreton, of Chicago, lately reported as intending to build a furniture factory in Vazoo, Miss., has purchased the ground and will erect a large saw mill and then the furniture factory. Has ordered saw mill machinery.

Jackson, Miss., will probably build water works.

A machine room and round house are being built at Vicksburg, Miss., by the Valley Railroad.

Robert Elliott, of the Memphis Broom Factory, will probably start a broom factory at Vicksburg, Miss.

NORTH CAROLINA.

Bevill & Co.'s tobacco factory at Greensboro, N. C., will be 60x150. Good progress is being made on it.

N. W. Beeson & Co., Abotts Creek, N. C., contemplate selling their mills and shops and removing to Lexington, N. C.

E. T. Reid, H. R. Hicks and A. Wilson have purchased the furniture factory at Old Fort, N. C. and will remove it to Morganton, N. C., enlarge it and put in new machinery.

Hawn, Fry & Miller, Hickory, N. C., have commenced the erection of a planing mill and sash and door factory. Cassiday & Galley contemplate erecting a wagon factory in Raleigh, N. C.

J. S. Tomlinson of Hickory, N. C., is contemplating the establishment of a smoking tobacco factory in Raleigh, N. C.

SOUTH CAROLINA.

Wm, F. Claussen, of Mars Bluff, S. C., has erecte: large furnace for burning tiles.

TENNESSEE.

A. M. Stevens, Dyersburg, Tenn., has nearly completed his 100 barrel a day roller flour mill and will soon build a planing mill.

J E. Murray, of Ohio, has decided to erect extensive carriage and wagon works at Chattanooga, Tenn., in the spring.

The flour mill of W. J. Parrott & Son, Strawberry Plains, Tenn., lately burned, will probably be rebuilt by another firm. Parrott & Son can give particulars.

S. T. Giles, Chattanooga, Tenn., has been negotiating for a site for agricultural machinery works.

A shoe factory will probably be started in Chattanooga, Tenn., by a Massachusetts man.

TEXAS.

Chicago capitalists are examining granite quarries at Burnet, Texas, with a view of purchasing.

The Houston & Texas Central Railroad will extend its lines from Albany, Texas, to connect with the Denver & New Orleans Railroad.

VIRGINIA.

The Virginia Tin Mining and Manufacturing Co., the organization of which was previously reported, will push the work of mining tin ore in Rock Bridge county, Va. Mr. Edgar Whitehead of Amherst Court House, Va., is president; capital \$600,000.

The Edinburg Manufacturing Co., of Edinburg, Va., has been organized (with capital reported at \$200,000 cash.) to manufacture agricultural implements, &c. Now erecting works; will employ 100 to 200 hands.

John Carmichael, town engineer, Lexington, Va., invites proprosals till December 15 for 140 tons of 6-inch cast iron water pipe in lengths of 12 feet. Pipe to be delived in March and April, 1885. Particulars furnished upon application.

Liberty, Va., is figuring on water works.

Charlottesville, Va., will decide this week whether or not to spend \$85,000 in building water works.

WEST VIRGINIA.

Fegans & Haines, Rippon, W. Va., have rebuilt their flour mill burned some months ago and are now building a saw mill.

E. R. Davenport has organized the company that is to build water works in Charleston, W. Va., previously reported.

The Belmont Blast Furnace, Wheeling, W. Va., has blown out to be relined.

An effort is being made in Morgantown, W. Va., to establish gas works.

The Uuion Railroad and Depot Company has been chartered at Wheeling, W. Va, to build a depot and appoaches. Capital \$50,000.

BURNED.

Saw mill of J. M. Dorn, McCormick, S. C.

Sugar house of Oliver Beirne on the Armant plantation, St. James Parish, La.—Loss \$150,000.

Grist mill and ginnery of L. W. Tyson, White Hall, Ala.

Saw, grist and wool mill of the Trappist Monks, near New Haven, Ky. Loss \$30,000. Distillery of Coon Hollow Distillery Co.,

Newhope, Ky. Ginnery of Walter Bates, Batesville, Ala.

A fire in Hickman, Ky, burned part of the works of the Hickman Furniture Co. and several other buildings. Aggregate loss \$125,000.

Tannery of J. O. Cauble, Greenville, S. C.; loss on machinery, &c., \$2,000.

The gin and saw mill of John Sikes, of Oconee county, Ga.

Barrel factory of Rogerson & Darden at Edenton, N. C. Loss \$2,500.

A manufactory has been destroyed at Franklin, Ky.

THE Cummer Engine Co. report that the Jonathan Mills Flour Dresser, manufactured by them, is meeting with excellent success. They are selling a great many of them, and are receiving a large number of repeated orders. They are also quietly placing a number of the "Finch" Rolls, which are looked upon by all who have investigated them as a very superior roll. The Cummer Engine Co. have just been awarded the contract for the refrigerating plant for the brewery of Rothaker Bros. & Thomas, of Philadelphia. This comprises two of their improved refrigerating machines, two condensers, etc., etc. They have also entered into contract with Henry Zeltner, of Morrisania, New York, for a large refrigerating plant, including two machines, two condensers, one of their 67 horse power engines, etc., etc., and have received an order for an engine of the same size from the Montgomery Milling Co., Montgomery, Mo. Among the recent shipments of the Cummer Co. are the following: A 95 horse Cummer Co. are the following: A 95 horse power engine for the flouring mills of Amos Bros., Syracuse, N, Y.; two engines, 67 horse power each, for the Citizens' Electric Light Co., of Akron, Ohio; a 130 horse power engine for the Upton Mauufacturing Co., Port Huron, Mich.; one of 170 horse power for the cotton mills of the Hadley Co., Holyoke, Mass.; an engine of 287 horse power for the railroad shops of the New York, West Shore and Buffalo Railroad Co., at Frankfort, N. Y., and a 170 horse power engine for the and Buffalo Railroad Co., a. Y., and a 170 horse power engine for the cotton mills of W. H. Cherry & Co., Moun-

Everybody should buy a copy of "THE NEW SOUTH." It will be worth many times its cost.

THE CENTURY for Decmber has for its frontispiece a profile portrait of General Grant, engraved from a recently found photograph taken in 1862. It accompanies the second of the papers on the Civil War, "The Capture of Fort Donelson," which is contributed by General Lew Wallace, who commanded the Third Division of Grant's army during the seige. A score of illustrations present views on the field, portraits of officers, maps, and (not the least interesting) an autograph copy, recently made by General Grant, of his famous "Unconditional Surrender" dispatch to General Buckner. The "Recollections of a Private" are continued, with descriptions of the early 'Campaigning to no Purpose" along the Potomac, with illustrations. In both papers the drawings are nearly all from photographs.

nearly all from photographs.

The fiction consists of "An Adventure of Huckleberry Finn, with an account of the famous Grangerford-Shepherdson Feud," by Mark Twain, being a tale of life along the Mississippi River, some of the types being represented in the sketches of D. W. Kemble; the first part of a novelette, in three parts, "The Knight of the Black Forest," by Miss Grace Denio Litchfield—a story of American girls in Europe, which is illustrated by Mrs. Mary Hallock Foote; and the second part of Mr Howell's new novel, "The Rise of Silas Lapham."

A READER of the MANUFACTURERS' RE-CORD, in a growing Southern town, writes to inquire if we know of any one who would like to make an investment in mineral and timber land or real estate at once in that section. He says: "There are three lines of railroads being built to this place, and if any one wishes to do anything in this line now is the time. Will send plans or plats of the lands to any one wishing to invest. The timber is the finest of hickory, oak, ash, poplar, &c."

LOCKWOOD, GREENE & CO.

MILL ENCINEERS

Office, 65 Westminster St., Providence, R. I.

for

Carefully prepared plans, specifications and estimates furnished for the construction, equipment and organization of new mills and the revision and improvement of old

Copper Roofing.

PHILADELPHIA, Nov. 18, 1884.

An article has lately appeared in the Mining Gazette in reference to the advisability of architects, builders, etc., using copper roofs, and urging their use on account of durability and the present low price of manufactured copper, basing their statements on the price of Ingot copper and the cost of manufacturing it into sheet copper at three cents a pound, without regard to the thickness of the sheets manufactured. This article has been copied by many of the leading journals devoted to architecture and building throughout the country, and has no doubt attracted much attention from those in-terested in the subject. We have read it carefully, and it is so misleading in its statements, so inaccurate in its deductions, and such absurd prices as to the cost of manufactured copper are given, that we take the liberty of correcting some of these statements as to not only why in our opinion copper roofs generally in this country cannot take the place of other material, not altogether because the great expense, but unless put on so as to avoid the great expansion and contraction, the roof will be utterly useless for the purpose for which it is intended. Although this fir a is not engaged in the roofing business, it has within the past ten years, we believe, supplied a very large portion of the sheet copper that has been furnished for the different government and state buildings besides large quantities of sheet copper for gutters, valleys, etc., to the trade in general, hence we do not write this article without some knowledge of the facts of the case.

We do not doubt all that is said in regard to dwability of copper roofing, nor is there any question in our minds as to the vast number of inferior roofs which have been and are being put on at the present day. hesitate to assert that the fault lies not only with owners of property, who are not willing to pay a good price for a good roof, but with architects who, when specifying tinplates, simply specify IC or IX best charcoal roofing which in reality means nothing. The great expansion and contraction of sheet copper is such that if a copper roof is put on in the ordinary way a tin roof is, say of 16 ounce copper, it cannot be secured by solder, nails or screws that will hold any length of time, and make a secure roof. The Government formerly used 16 ounce copper on all public buildings, and though these roofs were put on at the time by competent firms, we have it from a reliable authority that the expenses of repairs on Government roofs up to the present time will show a loss to the Governnent of so much money that the public at large would not credit same, -in fact it has been asserted that in some cases the weight of the solder used in patching these copper roofs to keep them from leaking would amount in weight to almost the original weight of the sheet copper put on. The government has, after a series of experiments, ome to the conclusion to use no copper heavier than ten ounce for the body of the roof. Amongst all the patents, of which there are many for putting on copper roofs, we believe there is only one so far, that can practically make a first class copper roof, by which the edges of the sheets are positively fixed at frequent intervals, and the sheets of ten ounce copper being light, will brekle between the fixed points, and not be dragged backward or forward over the whole roof. By this patent the expansion is thus distributed over the whole roof, and between any contiguous fixed points is so light that it is scarcely appreciable. The size of the sheet used should not be more than 24 inches wide and 48 inches long; about three inches off the width is required for grooving.

We understand by this patent that it would cost about fifteen cents per square foot to lay this roof, over and above the price of the material; or take ten ounce copper at the market price to-day, and we hardly

think it possible to lay a roof at less expense than 36 cents per square foot, or over double the amount stated by the Mining Gazette.-This would be nearly the four times the cost of using Gilbertson's Old Method Roofing which we believe to-day to be the heaviest coated roofing plate in the market and is consequently taken by us as the basis of the best roofing plate that can be used as to the comparative cost between tin and copper. While it is true that even an extra coated plate like Old Method must be painted from time to time, yet, even taking into consideration the cost of painting every few years, the interest alone on the original amount expended for a copper roof over tin, would in the course of many years be a very important item. Our figures for putting on a copper roof are based on plain copper, while the Government uses copper tinned on both sides, which adds a cost of five cents per square foot, but we do not believe that there any necesity of tinning a roof, unless used in such States as Texas and other places where they are more or less dependent for water caught from the roof. Though sheet copper is largely used for gutters, valleys, etc., we think that you will find upon investigation that great difficulty is experienced by the most competent houses in making durable jobs of sheet copper; in fact it is almost impossible to make long lengths of some gutters without breakages soon oc-We have in our city quite a number of buildings that have been roofed many years with sheet copper, but we are informed that there are constant repairs needed on these roofs. There is no question in our mind, as to the durability of copper and that a copper roof properly put on is the most lasting one. Under the patent referred to we have no doubt that a perfect roof can be had, yet as to the question of cheapness as regards other roofs, it has only been our intention in this article to point out why the statements made by the Mining Gazette are misleading to architects and builders, and there is no reason why the facts, as we believe them to exist, should not be stated at once, to save further misapprehension as to the correctness of the statements made in the article referred to.

We have given the subject of copper roofing our personal attention for many years, and if any of the statements made by us are incorrect, we trust that those who have had a practical experience in this line will come forward and give you their views on this subject. Yours truly, MERCHANT & Co.

"THE NEW SOUTH" is an accurate and impartial description of the manufacturing, mineral and agricultural resources of the Southern States. See Prospectus on another page.

THE New Automatic Knife Grinder, manufactured by The Egan Company, of Cincinnati, Ohio, has met with the greatest success among all classes of wood working establishments. They recently sent one to a large agricultural implement factory and have just received the following letter in regard to it:

OFFICE OF P. WEYHRICH & Co. PEKIN, ILL., Nov. 1, 1884.

We will say in regard to the grinder that it is running right along and grinding about 100 knives per day. We now have the second wheel on the machine and it is doing still more satisfactory work, and we are free to admit that we believe that the principles of the machine are correct. (Signed.)

P. WEYHRICH & Co.

The above firm have a great many knives to grind for agricultural implements and their varied experience with different kinds of grinders lends additional weight to their endorsement of this new grinder.

 Everybody should buy a copy of "THE NEW SOUTH." It will be worth many times its cost.

Detrick & Harvey's New Works.

Messrs, Detrick & Harvey, of this city, are making good progress in the erection of their large machine shops, mention of which has already been made in the MANUFAC-TURERS' RECORD. The location selected for their works, Preston street, east of Jones Falls, gives them ample room and excellent shipping facilities. They are erecting two buildings, one for the main shop, 116x60 feet, and the blacksmith shop. The main building is two stories and pattern loft, and very similar in design and construction to one of the Vale & Towne shops, at Stamford, Conn. The windows on the first floor are 12 feet high with 4 feet of wall between Two rows of posts run the whole length of the building, leaving a space between them of 24 feet, in which runs a Yale & Towne traveling crane. The floor will be of oak laid on concrete 8 inches thick, while the second floor will be entirely free from posts, the roof being self-support-The entire structure has been erected with a view to light and air so necessary to a machine shop, and with complete facilities for handling heavy work. Messrs. Detrick & Harvey expect to occupy these shops by January 15, when they will have superior facilities for building their specialties-the Single Post Planer and Heavy Milling Machines, as well as for the construction and repairing of special and fine machinery. In connection with the S. A. Forsaith & Co.'s exhibit at New Orleans, Detrick & Harvey will show one of their 20-inch Single Post Planers in operation. One of the 30inch Single Post Planers made by this firm has just been sold to the Kitson Machine Co., of Lowell, Mass.

"THE NEW SOUTH" will be a valuable publication for all who want to know what the South has to offer to the capitalist, the settler, or the tourist.

Literary Notes.

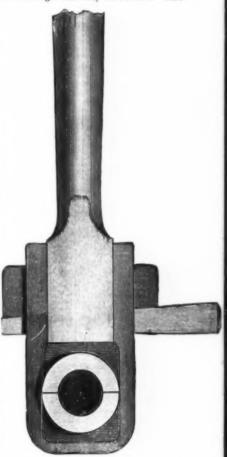
THE Popular Science Monthly for Decemer contains The Reformation in Time-Keeping. by W. F. Allen, (illustrated;) American Aspects of Anthropology, by E. B. Tylor, F. R. S.; School-Culture of the Observing Faculties, by J. C. Glashaw Oueer Flowers, by Grant Allen: Alcoholic Trance, by T. D. Crothers, M. D.; The Problem of Universal Suffrage, by Alfred Fouillee: Cannibalism, as a Custom, by A St. Johnston: Starvation: Its Moral and Physical Effects, by Nathaniel E. Davies, L. R. C. P.: The Chemistry of Cookery, by W. Mattieu Williams; The Perils of Rapid Civilization, by C. F. Withington, M. D.; Religion and the Doctrine of Evolution, by Frederick Temple, D. D.; Liquefaction of the Elementary Gasses, by Jules Jamin : The Oil Supply of the World, II; Oddities of Animal Character; Biographical Sketch of Edward B. Tylor, (with portrait;) Correspondence: Editor's Table: Science in School Management: The Abuse of Political Power; A Jewish Explanation of Jewish Success, Literary Notices; Popular Miscellany: Notes.

Important to Southerners.

Persons arriving in New York via Cortlandt Street Ferry, by taking the 6th Avenue Elevated Train, corner Church and Cortlandt streets, can reach the Grand Union Hotel in 42d street, opposite Grand Central Depot, in twenty minutes, and save \$3 carriage hire. If en route to Saratoga or other summer resorts via Grand Central Depot, all baggage will be transferred from hotel to this depot free. 600 elegantly furnished rooms \$1 and upwards per day. Restaurant the best and cheapest in the city. Families can live better for less money at this hotel than at any other first-class hotel in the city. ‡

Strap Joints

The tendency of machine shops to confine their operations to special lines of work has been more and more marked of late years. By using machinery specially adapted for a certain class of work, such articles as taps, reamers, &c., which were formerly made by the men who used them, are now turned out in large quantities and a greatly reduced cost. And so this year manufacturers of machinery buy certain parts of their machines which last year they made, and this tendency is growing to such an extent that some one has been bold enough to predict that the day will come when every part of a locomotive engine will be carried in stock, so that when the builders get an order for ten or more engines, they will only have to buy the parts and put them together. But although this may be rather a



prediction as regards a locomotive, it is probably not far from the truth as regards the smaller stationary engines. The accompanying cut illustrates the latest advance in this direction in the shape of a Strap Joint or stub end. They are made in various sizes, and it is claimed the net cost to the engine builder is far below what they would cost him to make, even if his facilities are good. They are said to be made of the best material, (nothing but pure copper and tin being used in the boxes₃) and are accurately fitted.

In these days of close competition it may be worth while, mechanics, to investigate this subject. These goods are being introduced by Messrs. Cooke & Co., 22 Courtland street, New York City.

Every man in the South should have a copy of "THE NEW SOUTH." The price is tow. See Prospectus published elsewhere,

AMONG the prominent hotels of the country must be noted The Palace at Cincinnati, Ohio. It is a magnificent stone structure recently built, superbly finished and furnished throughout, and provided with modern devices for the comfort and convenience of guests. It is under efficient management, and possesses the advantages of a hotel, with the comforts of a home. The proprietor gives personal supervision to all the details of management, and is careful to see that his guests have their wants properly attended to.

The Bridgeport Interchangeable Lathes and Lipe Patent Tool Post.

The lathe herewith illustrated is one lately brought out by the Bridgeport Machine Tool Works, Bridgeport, Conn., of which E. P. Bullard, 14 Dey street, New York, is pro-

In 1867 Mr. Bullard conceived the idea of making an interchangeable lathe which, for good and sufficient reasons, he was unable to carry out until 1880. In July of that year he organized the Bridgeport Machine Tool Works in connection with other parties, the object being to develop the "inter-changeable plan" as applied to the manufacture of lathes, making a specialty of the 16inch lathe. January I, 1882, Mr. Bullard became sole proprietor of the works, which were increased and valuable real estate purchased with a view of making the works a permanency. During that year all of the patterns were remodeled and an entire new outfit of special tools and fixtures was produced and a higher standard of workmanSchenectady, N. Y., the Lidgerwood Manufacturing Co., of New York City and Glasgow, Scotland; the Watts, Campbell Co., of Newark, N. J.; the Brush Electric Light Co., of Cleveland, Ohio; The Holyoke Water Power Co., of Holyoke, Mass.; Morgan's Louisianna and Texas Railway & Transportation Co., of New Orleans; Valiente & Co., San Salvador, W. I.; The Eames Vacuum Brake Co., of Paris, France; and many others, are large patrons of these works, making a total of nearly three hundred and fifty lathes made and sold at present date, from a shop starting in August, 1880, with an area of 30x50.

The manufacturers give the following concise description of the Twenty-one Inch Lathe, which is of unusual weight, and is designed especially for railroad and engine shops; "will take heavy cuts on any work coming within its range. It has five section cone, the largest of which is 13-inch diameter, for 3-inch belt. Gears are large and of ample face. Spindle is of hammered steel, boxes of best composition metal. Diameter of front bearing, 31/4 inches by 6 inches

disc. The feed is reversed by a simple mechanical movement in the apron, and convenient to the operator."

The Lipe Tool Post, mentioned in the foregoing description and shown in the cut, is arranged so as to fit into a socket, which is moved by the cross screw on the carriage It is adjustable for regulating height of tool by means of the screw on the side. It can be swung around so as to use a boring tool. The tool can be used in the center or at the side, as shown in cut. It is clamped in the socket by means of screw, the socket being slit to below the center. The Lipe Tool Post can be instantly removed and a compound rest substituted.

List of Patents

The following Patents were granted to citizens of ne Southern States, bearing date Nov. 18, 1884. Re-orted expressly for this paper by Louis Bagger & o., Mechanical Experts and Solicitors of Patents, Vashington, D. C.

Brotherhood, Fred., Charleston, S. C. Drier.308,237 Burton, J. F , Booneville, Ark Buckle fasten-

that more nearly represent the actual prices paid, though it is believed by some that prices will be strengthened on account of

ing Steel..... nmon Horse Nails...... lroad Spikes, 5½x9-16...

Pig iron shows no improvement either in demand or prices, and we repeat former quotations

21 00@23 00 20 00@21 00 18 00@20 00 16 00@17 00 Mottled and White ...

HARDWARE.

Trade has continued moderately good during the week, with a steady improvement in the demand from the South, though some buyers have been holding off and purchasing only in small lots as needed for immediate wants. There is considerable cutting in prices, though this will probably stop if the demand continues to increase. All of the plane manufacturers in the country have combined as the Plane Manufacturers' Union and have advanced prices, the new discounts being 15% on fancy planes, 20% on first quality bench planes, 25% on second quality bench planes, and 20% on plane irons, all subject to 2% for cash to days. In the former combination only three companies were represented, but all five-the Auburn Tool Co., Greenfield Tool Co., Ohio Tool Co., Sandusky Tool Co. and H. Chapins' Sonsare in the new organization. Mr. Arthur Emory, German street, Baltimore, is agent for all of these companies.

The demand for nails has not materially increased and prices are as last quoted: \$2.00 @\$2.10 according to quality and quantity, but the outside factories, which a few weeks ago were pressing inferior nails at \$2.00, appear to be out of the market, and good nails are quoted \$2.10.

President E. D. Shelton, of the Shelton Tack Company, says that the tack pool is now nearly broken. He remarked this week: "The combination must burst pretty soon and all of us go into the market on an equal footing. At present there is a large tack factory building in Cleveland, which is in the center of the Western trade of this combination. This does not look encouraging." Business is dull in the tack trade. Mr. Shelton says that the cause is overproduction, there being three times too much machinery; and finally he attributes much of the dullness to the combination of tackmaking concerns which for years spent money in purchasing small manufactories for the purpose of controlling the market.

The following circular has been issued: NEW YORK, November 22d, 1884.

Owing to the unexpected and rapid advance in quicksilver, the Associated Manufacturers of Ouicksilver Vermilion have advanced the price as follows:

Bulk, kegs, 100 lbs. and over, 55c. per lb. 56c. Bags, 30 and 50 lbs., - - -

Less 1% to direct purchasers. Subject to change without advice. We do not guarantee price against decline, and can make no allowance for stock on hand in case of a reduction in price.

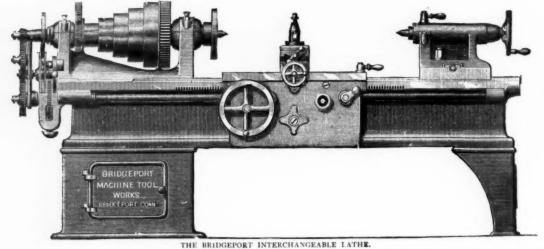
D. F. TIEMANN & CO.

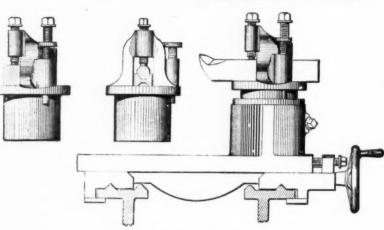
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Philadelphia Iron Market.

PHILADELPHIA, Nov. 25, 1884.

The depressing influences are still at work in the iron trade, and all the business transacted is at a shading from former figures.— Southern forge iron is being delivered here at \$16 to \$16.25; foundry at \$17 to \$19.





THE LIPE PATENT TOOL POST.

ship reached. The success which followed I is well known to the mechanical world, the Bridgeport Lathe now being recognized as a "standard tool," not only at home, but

Mr. Bullard numbers among his customers such universally well known firms as the Westinghouse companies of Pittsburgh, Pa., who have in use one hundred and two of his 16-inch lathe, and five of a more recently constructed pattern, viz: the 21-inch, herewith illustrated; Messrs. Eaton, Cole & Burnham Co., of New York City and Bridgeport, Conn.; The Calumet & Hecla Mining Co., of Calumet, Mich., well known as the largest producers of copper in the world; the Singer Manufacturing Co., of Elizabeth-port, N. J., and Glasgow, Scotland; the Farrell Foundry & Machine Co., of Waterbury, Conn.; the Blake & Johnson Manufacturing Co., of same place; Jno. T. Noyes Manufacturing Co., of Buffalo, N. Y.; D. M. Osborne & Co., of Auburn, N. Y.; the New York Locomotive Co., of Rome, N. Y.; Cooke Locomotive Works, of Paterson, N. J.; Schenectady Locomotive Works, of

long. The tail stock is heavy and well braced, has long bearing on bed. The carriage is thirty inches long, gibbed front and Bears full length on the ways, and is carefully scraped to a fit. Sliding tool block is 18 inches long, has adjustable taper wedge entire length, and will face full swing of The compound rest and Lipe Patent Tool Post can be used interchangeably with each other in the sliding block or on the wing of the carriage for turning full swing of the lathe. This arrangement of compound rest and tool post is an entirely new feature, and will be found very convenient. The leading and actuating screws, and all shafts and studs, are of machinery steel. The leading screw is splined, and operates the lateral and power cross feeds by independent worm and frictional gearing. By turning the star-wheel to the right the lateral feed is engaged. Turning the same to the left locks the cross feed; by this device all possibility of the two feeds being locked at the same time is avoided. All nuts are case hardened. The feed has great range from fine to coarse, being driven by the well-known Seller's friction

Davis, G. W. and G. A., Pine Bluff, Ark. Stalk-cutter......Frey, J. A., Colesville, Md. Refrigerator Hurd, J. B., Hardin, Tex. Hand-cultivator .. 308,163 s, W. H., Baltimore, Md. Gas making bolster......308,167 Owen, R. O., Lynchburg, Va. Device for Smith, J. S., Beebe, Ark. Packing box for cotton presses. ..308,218 Weishampel, B. F., and W. P. Towles, Balti-

Read the Prospectus of "THE NEW SOUTH," in the advertising columns.

THE WARKENS.

OFFICE MANUFACTURERS' RECORD, A BALTIMORE, Nov. 26, 1884.

There is considerable depression in manu facturing interests, but it is believed to be much less severe than the highly colored reports of the daily papers would indicate.-In fact in some directions there are evident signs of improvement, and quite a number of reports from various sections indicate a much better feeling in industrial matters.-The outlook is, we believe, on the whole favorable to a fairly good winter trade, with still brighter prospects for the spring busi-

The manufactured iron market continues dull, and we reduce quotations to figures

Sample lots are distributed, and founders speak favorably of the iron, and will pur-chase more largely unless Pennsylvania makers should be able to reduce prices .-Consumers are looking every day for an announcement from Pennsylvania companies of a drop of about 50 cents per ton. Furnace companies in the South are endeavoring to make rail rates which will allow them to deliver iron in the East, in competition with Northern makes. The bar mills are running to one-half capacity; refined merchant iron sells at \$1.80; common at \$1.60; muck bars at \$28; iron nails \$2 to \$2.10; steel rails \$2.15 to \$2.25; 300 tons of plate iron have sold in small lots at 2 cents to \$2.10 for plate; shell at \$2.75; flange \$3.75; small lots of structural iron are selling at \$2.15 to \$2.20 for angles. Rumors prevail as to a probability of a break of the combination on beams and girders, which has held prices at \$3.50 for small lots for several years. Steel rails are \$28 for small lots, and negotiations are pending at \$27 for large lots.

Old rail sells at \$18 to \$19; sheet iron is without any change; scrap iron has dropped 50 cents for selected lots, owing to the increasing supplies. All of the textile mills are running with very little capacity; 2,000 carpet weavers here are on strike, and a strike is imminent in the shoemaking trades. A reduction of wages has been made at the Scranton steel works.

Cincinnati Iron Market Report.

Specially reported by E. L. HARPER & Co.

CINCINNATI, Nov. 24, 1884.

There is no change worthy of note in the aspect of the market since our last report. Supply, though much reduced, is adequate for the current limited demand. The depression has necessitated the blowing of furnaces disadvantageously located. "The survival of the fittest" is illustrated again, in the operation of only those properties enjoying every advantage. These are producing metals of desirable character, and hence prices are in the main well sustained. We quote as prices current cash here:

						0.00	Sar 6
Hanging	Rock	Charcoal,	No.	E	\$21	00@22	oc
64	er	48	66	2	20	00@21	00
Strong N	eutral	Coke,	0.0	1	17	00@18	00
14	44	44	44	9	16	00@16	50
American	Scot	ch,	45	1	17	00@17	50
		GREY	FOR	RGR.			
Cold She	rt				14	50@15	00
	CAR	WHEEL A	ND N	ALLEABL	E.		

FOUNDRY.

Hanging	Rock,	strictl	y cold	blas	t	25	50(0)26	90
61	**	4.6	warm	66		22	00@22	50
Lake Suj	perior C	harco	al, all g	grad	es	22	00@23	00
South. C	ar Whe	el, stri	ictly co	old b	last	22	00@23	00
Amherst	and Vi	rginia	Warm	Bla	st	21	00(0)21	50

Specially reported by ROGERS, BROWN & Co., Pig Iron Commission.

CINCINNATI, Nov. 24, 1884 It has been a week of car load buying But few orders of 50 or 100 tons are reported and none above those limits. Foundries and mills are running very light; all appear to he waiting to see how matters will shape themselves under the new political order. There is no letting down of prices. Indeed such a thing seems impossible, though a general suspension of demand would sooner or later force it. Should this happen the list of active furnaces will be quickly cut down to the narrowest limits; some producers would not be sorry to see a still further decline, believing it would prepare the way for a surer and speedier advance. Collections are good and failures in the iron trade The foundation is believed to be are rare. solid. What is wanted is confidence, and this, it is thought, will gradually come.

quote for cash f. o. b. cars Cincinnati: HOT-BLAST FOUNDRY.

Ohio and	Southern	Strong	Coke			50@17	
66	0.0	41	44			00@15	
	Stonecoal	l,		No.	1 18	50@19	00
66 64	60			No.	9 17	00@17	60

CHARC	DAL IRON.
Hanging Rock,	No. 1\$21 00@22 00 No. 2
Tennessee and Alabama,	No. 1 19 50@20 00 No. 2 18 00@18 50
	PORGE.
Mottled " "	\$15 00@15 50 13 50@13 50 14 00@15 00
CAR WHEEL	AND MALLEABLE.
Southern Car-Wheel Iron Hanging Rock C. B	3 22 00@25 00 25 00@27 00 20 00@23 00
Lake Superior Malleable	23 00@24 00

Louisville Iron Market.

pecially reported by Gno. H. HULL & Co., Com-mission Merchants for the sale of Hot and Cold Blast Pig Iron.

LOUISVILLE, KY., Nov. 24, 1884. The market has been very dull for the last week, but prices remain firm. We quote for cash round lots as below:

PIG IRON.

Southern Coke, No. 1 Foundry			
	16	25@16	50
Hanging Rock Coke, No. 1 Foundry	18	00@18	50
" Charc'l, " "		50@23	00
Southern Charcoal, No. 1 Foundry	18	00@10	00
Silver Gray, different grades	15	00@17	00
Southern Coke, No. 1 Mill, Neutral	14	75@15	00
	13	75@14	00
" " Cold Short.		00(0)14	
Southern Charcoal, No. 1 Mill		50(017	
White and Mottled, different grades		50@13	
Southern Car Wheel, standard brands			
" " other brands	22	00@24	
Hanging Rock Cold Blast		00@26	
" Warm "		00@22	

Specially reported by W. B. BELKNAP & Co., Nails Wire, Iron, Hardware, Carriage and Wagor Goods.

LOUISVILLE, Ky., November 24, 1884.

We are glad to report more animation in trade generally. It is rather noticeable however in hardware than in the heavier goods, for, despite a fair seasonable demand, the prices on bar iron are still lower than we have had occasion to quote them for some Some of the mills which carried stocks over the election in hope of higher prices, are closing out such stocks and have announced their intention not to start until omething better may be realized.

Hoops and bands are weakish and prices somewhat irregular. We do not know whether the bond of the old association is claimed to be as strong as it used to be, but there are certainly evidences of elasticity which formally did not characterize it. Prices for hoops are much lower than they were in 79, when it was presumed the bottom had

dropped out of everything.

Sheet Iron.—There is decidedly more movement in the stove pipe and pan guages, though the individual orders are small.-Several of the mills advise us that they have not adopted the new guage, but furnish 26 and 27 as heretofore by the regular Birmingham standard.

Nails.-The situation of nails grows more interesting as prices decline to what is necessarily nearer bottom. The war a short time ago between iron and steel nails is now assuming larger proportions in the steel nail camp itself. Almost all of the Wheeling and other river factories announce themselves prepared to furnish steel nails to their customers, and caution buyers to see that they get the blue or the red brand as the case may be.

Barb Wire .- The price of wire is very much disturbed by the extreme dullness of the market, and the effort on the part of many of the manufacturers to unload. The weather in the cotton States has lately been so propitious that all hands have been em-

so propitious that all hands have been employed in picking cotton; hence ginning and shipping delayed.

Among the first signs of advances we may note that of the carriage goods mauufacturers. Their goods have been absurdly low for six months past, and the new circular of prices may indicate the turning point in other lines as well. We quote from store as follows:

Bar Iron	z 80	@r 90
No. 27 Sheet	3 10	603 20
Galvanized Sheet, Best	50%	
Crescent Steel	EE	(6) 12
Plow steel slabs	23/	
Galvanized Iowa Barb Wire	5 25	(6) 5 30
Burden Shoes	4 00	604 10
Juniata Shoes	3 70	663 75
Carriage Bolts	75	& 10%
Steel Nails	2 35	(m2 40
Iron Nails	2 25	@2 30
Sisal Rope	81/	-
Manilla Rope	14	@ 16
Manilla Rope	50@7.	50. X
cut saws, wide, 28@40 cents per foot.	Nar	row X
cut saws, 22@26 cents per foot. With c		
language out already business		

St. Louis Iron Market.

Specially reported by HOFFER & Co., Pig Iron and Iron Ore, No. 318 Olive Street.

St. Louis, Nov. 24, 1884. There is nothing doing in the iron market, and it is hardly quotable. We continue quotations same as last week.

Missouri
Southern 16 00@17 00
Ohio 30 00@22 00
COKE AND COAL,
Missouri 16 00@17 00
Southern 18 00@19 00
Ohio 90 00@22 00
MILL IRONS.
Red Short 15 50@16 00
Neutral 15 00@16 00
CAR-WHEEL AND MALLEABLE IRON.
Missouri 18 00@20 00
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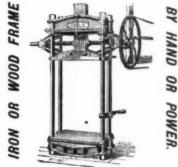
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Nos. 25 and 2622 1/2		.241/2	.27	.29	.31
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Add o cts. % lb. for sheet and lengths.	s cut	to par	ticula	ir wi	dths
Add 1/2 c. 78 fb. additional		ich nu	mbei	thi	ner
Brass thinner than No. 3					cts.
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Over 1/4 in to 1/2 in., inclusive, Nos. 21 to 28,	1
inclusive	3
not less than	6
Over ¼ in to ½ in., inclusive, Nos. 29 to 32,	134
inclusive	3
not less than	12
thinner	3
thinner	6
less than	18

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66	29	45	49	54
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6.6	32	55	59	73
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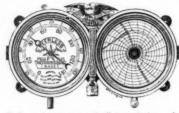
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An Accurate and Comprehensive Description of the Southern States, Noting each State Separately, and Giving their Distinctive Features and Most Salient Characteristics; Presenting a Vivid and Vigorous Picture of their Resources and Attractions, their Present Condition and Vast Possibilities.

BY COL, M. B. HILLYARD, NEW ORLEANS, LA.

Published by THE MANUFACTURERS' RECORD, Baltimore, Md.

→PROSPECTUS. ←

The publishers of the MANUFACTURERS' RECORD, in furtherance of their aim to lead in matters promotive of the material interests of the South, beg to state that they will shortly issue a work entitled THE NEW SOUTH, from the pen of Col. M. B. HILLYARD, of New Orleans, La. The book is devoted to an exposition of the South. It will treat of topography, soil, climate, woods, watercourses, resources, manufactures and such laws as are needful to be known. It will portray the attractions to the capitalist, and those seeking homes in the South, in the lines of manufacture, horticulture and agriculture. It will show what the South is and what she is likely to become by reason of her almost untouched, and slightly known resources in soil, climate, rainfall, marls, minerals and geographical position, and the vast variety of products possible to a wise and varied husbandry, and a grasp of her rich opportunities for manufacture.

The information is new, broad, accurate, unbiased and abundantly avouched by unquestionable authority.

The book is entirely new in its scope and design, and aims to be a guide to all seeking information on most vital matters. No such book has ever been written; and it meets a want now imperative to those seeking information as to the South.

No one wishing to be informed about the South, either in this country or Europe, can dispense with this book

The author is well-known both North and South for his long identification with Southern development, and perhaps no one else has contributed more to the general stock of information bearing on the South in the columns of Northern journals. His study of the South has been long, large and unremitting, and he contributes the ripe results of these years of study and personal inspection to the preparation of this book. His many qualifications pointed him out to the publishers as the one most fitted for a duty of such delicacy, magnitude and responsibility. They have, however, preferred not to rely upon their own convictions alone as to the author's fitness for the work. Below is furnished abundant testimony from eminent persons North and South, whose reputation, in some instances, is not limited to this continent, and who have witnessed the work of the author for years, in his attempts to invite attention to the South. These are replies to letters sent out by the publishers enquiring as to Col. Hillyard's fitness for this work.

The book will contain about 400 pages, and will be sold at a price but little in advance of the cost. It will be handsomely gotten up, and will be a model of typography. Its price will be, in paper covers 75 cents; in cloth, \$1.25. At these prices the sale of the book will not, of course, prove largely remunerative; nor was it with that object that it was undertaken. To the author the writing of it has been a "labor of love," and a furtherance of aspirations for Southern development. To the publishers it affords an opportunity to emphasize, and they hope, signalize, their enterprise, and to contribute a noteworthy indication of their resolve to press the claims of the South upon the capital and enterprise of the world.

The work is confidently commended for the novelty and amplitude of its design, for the breadth and accuracy of its information, for the laboriousness of its research, the many years of study and investigation there formulated, and its conscientious and impartial animus

The following are letters corroborative of the wisdom of committing this

From Major S. A. Jonas, Aberdeen, Miss., United States and State Commissioner from Mississippi to the World's Industrial and Cotton Centennial Exposition:—
"In answer to your favor of recent date I take pleasure in saying that I have known Col. M. B. Hillyard for a number of years, and regard his selection as the editor and compiler of your book upon the South and its resources, as the wisest and best that could have been made. I do not in saying this pretend to guage his literary capacity, but I know the man's wealth of information upon the subject you propose to confide to him, and where so much has been stored away in good and acceptable shape, it can hardly come forth any the worse for contact with its treasure house, especially in this instance, where the keeper is a man of character and culture, and withal an amiable and enterprising gentleman."

From Parker Earle, Esq., President of the Mississippi Valley Horticultural Society, and Chief of the Horticultural Bureau of the World's Industrial and Cotton

Centennial Exposition:—"Your engagement of Col. M. B. Hillyard, of New Orleans, to write your proposed book, descriptive of the South and its varied resources, is a very fortunate one. I think there is no man in the country possessing so many qualifications for doing it accurately, ably and in a pleasing manner. I wish your enterprise great success."

From Daniel Dennett, Esq., Agricultural Editor of the New Orleans Picayune;—"I have just received your note. I have been acquainted with Col. Hill-yard for more than eight years. I know no man who has studied the interests of these States more intently than he, or with more ardent desire to benefit the South. He has acquired a vast amount of valuable information about the agricultural resources and mineral wealth of these States, and has the ability to put his information in readable shape. I consider him scrupulously honest, and his character above reproach. Mo man has shown more zeal or industry than he in efforts to promote the best interests of the Southern people. He is popular, and makes friends wherever he goes; and his friends are the best informed people in this country. He has a happy faculty for collecting such facts as you need for the book you intend to publish."

From James H. Heverin, Esq., The Eminent Philadelphia Lavyer:—"I have known Col. M. B. Hillyard all his lifetime; and I know no one, who from native talents, natural tastes, thorough education, long residence in the South, general experience, close observation, impartial judgment, and conscientious promptings, is more competent for the work you have confided to him. Col. Hillyard has resided in a number of the Southern States, and during that time I have known, seen and heard much of him. He has been a close student, a careful observer and at all times an interested and enterprising citizen. He is thoroughly familiar with the States of the South, their governments, their people, customs, habits, products, industries, resources and histories, and is therefore fully and admirably equipped in every way for the charge with which you have entrusted him. It gives me great pleasure to commend him to those who may be interested in your contemplated publication."

From Thomas Meehan, Esq., The Celebrated Author, now Editor of The Gardeners' Monthly, Philadelphia:—"I am very glad to know that you contemplate issuing a work on the industrial resources of the South.

I deem it fortunate that you have been able to secure the assistance of Collibration in connection with it. I know of no man more able, while he has the advantage of thorough conscientiousness. I always found in my experience that if Coll Hillyard said a certain thing was so, I might safely repeat it without danger of contradiction."

From Col. Lee Crandall. Editor of The National View, Washington, D. C:—"I am very glad to know that you will soon publish a book on the Southern States.

You have made an admirable selection in Col. M. B. Hillyard to write such a work. He is thoroughly acquainted with every section of the South, and will collect information invaluable to those desiring knowledge of any Southern

From J. G. Kingsbury, Esq., Editor of The Indiana Farmer, Indianapolis:—
"Col. M. B. Hillyard has contributed to our columns, and he is a clear and interesting writer, careful and painstaking in collecting and reporting information regarding the condition and resources of the Southern States. He is eminently qualified for the work in which he is now engaged."

From General A. M. West, Formerly President Mississippi Central R. R. Co., 2d Vice-President New Orleans, St. Louis and Chicago R. R. Co., President Mississippi Valley R. R. Co., etc:—"Your letter received, and contents noted.

* * * * * I congratulate you on the selection of Mr. Hillyard.

No one more competent than himself could have been chosen."

From A. C. Danner, Esq., President Danner Land and Lumber Co., Mobile, Ala., President Bank of Mobile, Vice-President North and South R. R. Co., of Alabama:—"I believe that Col., HILLYARD would be a suitable man for the work you describe. He is an industrious man, an honest man, and an educated man. Take him all, I know of no one more suitable for the work in question than he is."

From GENERAL S. D. Lee, President Agricultural and Mechanical College of Mississippi:—"I consider Col. M. B. Hillyard, of New Orleans, as a most competent gentleman to prepare a book embodying a description of the Southern States" Southern States.'

From General E. C. Walthall, Granada, Miss., One of the Best Known Lawyers in the South:—"When Mr. M. B. Hillyard lived in Mississippi, he gave nuch attention to the consideration of the resources of the State, and wrote much or journals in the North as to its timber, soil, climate, &c. He is a fine writer and well-fitted for the work you propose." well-fitted for the work you propose.

From S. H. Edgar, Esq., Manager New York Office, Louisville and Nasheille Railroad, 52 Wall Street, New York:—"In reply to your letter at hand a day or two since relative to the book you design publishing, descriptive of the Southern States, I beg to say that I consider Col. M. B. Hillyard excellently well qualified for preparing the book in question. I have known him well for several years. He is a skilled writer; conversant especially with the physical characteristics of the Southern States; laborious and conscientious; and zealous in the work of making known the advantages the South possesses in climate, soil and general productiveness. You are happy in the selection of Col. Hillyard to write your book."

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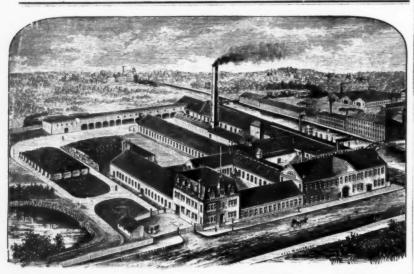
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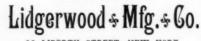


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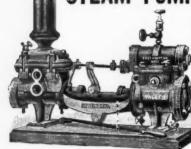
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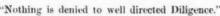




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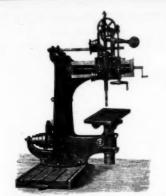
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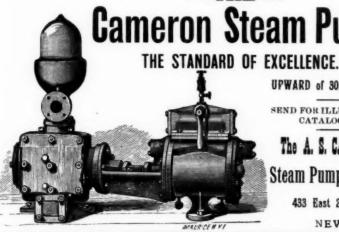
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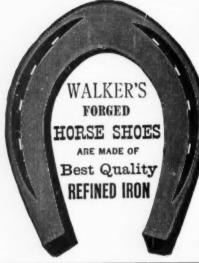
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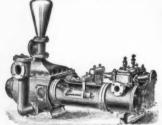
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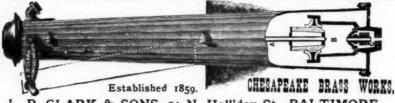
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Conn. Valley Mig. Co	
Hol. Aug., Ives' Expansive, each \$4.50, dis 308 to 8 Hol. Aug., Universal Expansive, each \$4.50, dis 20 8 Hol. Aug., Universal Expansive, each \$4.50, dis 20 8 Hood's. Gimlet Bits. \$7.50 gross, dis 50 8 Gimlet Bits, Diamond by doz 81.25, dis 40 8 Double Cut Gimlet Bits, Shephardson's dis 40 8 Double Cut Gimlet Bits, Shephardson's dis 335 8 Double Cut Gimlet Bits, Pouglass' dis 335 9 Double Cut Gimlet Bits, Pouglass' dis 35 5 8 Horse's Bit Stock Drill dis 25 8 1. Hommedieu's Ship Augers. dis 25 \$ 1. Hommedieu's Ship Augers.	
Morse's Bit Stock Drill	,
Sewing Brass Ferrule\$3.50 \$\text{if}\$ gross—dis 40& 10 \$\text{F}\$ Patent Sewing, Short\\$10 \$\text{if}\$ gross—dis 40& 10 \$\text{F}\$ doz. net Patent Sewing, Long\\$1.20 \$\text{if}\$ doz. net Patent Peg, Plain Top\\$10 \$\text{if}\$ gross—dis 40& 10 \$\text{F}\$ Patent Peg, Leather Top\\$12 \$\text{if}\$ gross—dis 40& 10 \$\text{if}\$ AWLS, BRAD SETS, 8C.	1
Awls, Sewing, Common	1
Brad Sets, Stanley's Exc.' No. 2, \$4,80. dis 30&10 % Brad Sets, Stanley's Exc.' No. 3, \$7.80. dis 30&10 % AXES.	
Collins & Co	200000
Collins & Co	2000
AXLES. Sheldon & Co., iron	GEN
Spring Balancesdis 25& 10 %	B
Hand, Light Brass dis 70 % Hand, White Metal dis 60 % Hand, Silver Chime dis 20%10 % Hand, Globe Cone's Patent dis 25%10 %	C
Gong, Abbe Gis 206x to % Gis 206x to % Gong, Abbe Gis 306x to % Gong, Barton's Gis 206x to % Gong, Barton's Gis 206x to %	R
Crank, Taylor's dis 25&10 % Lever, Sargent's dis 55&10 % Bloomfield dis 25 % Lever, R. & E. M. Co's dis 45&10&2 %	HCW
Gong Abbe dis 20% to \$\frac{1}{2} \text{ Gong}\$, Yankee dis 30% to \$\frac{1}{2} \text{ Gong}\$, Yankee dis 30% to \$\frac{1}{2} \text{ Gong}\$, Was to \$\frac{1}{2} \text{ Gong}\$, \$\frac{1}{2} \text{ Gong}\$ dis 20% to \$\frac{1}{2} \text{ Gong}\$ dis 20% to \$\frac{1}{2} \text{ Carak}\$, Taylor's dis 20% to \$\frac{1}{2} \text{ Gents}\$ dis 20% to \$\frac{1}{2} \text{ Gents}\$ dis 20% to \$\frac{1}{2} \text{ Gents}\$ dis 25% to \$\frac{1}{2} \text{ Gents}\$ dis 25% to \$\frac{1}{2} \text{ Gents}\$ dis 25% to \$\frac{1}{2} \text{ Gow}\$, \$\text{ Common Wrought dis 55% to \$\frac{1}{2} \text{ Gow}\$, \$\text{ Cown, Western, Sargent's List dis 55% to \$\frac{1}{2} \text{ Gow}\$, \$\text{ Cown, Moore's or Dodge's, Genuine Ky, new list: Nos. 0 1\frac{1}{2} \text{ 2} \text{ 5 60% to \$\frac{1}{2} \text{ 60 60% to \$\frac{1}{2} 60 60% to \$\text{ 60 6	CCB
\$12 \$10 \$0 \$8 \$7 \$4 \$3.50 \$2.50 \$5 \$ 10 % Cou, Texas Star dis 40 % BBLLOWS. Blacksmith's Common dis 50 %	B P D M
Hand Bellows	H
Francisdis 20 % Mackrell's	P G
Francis dis 20 ft Mackrell's. B doz pairs \$1.00, dis 10 g Van Sand's Screw Pattern \$9 B gross, net Van Sand's Old Pattern 1½, \$8; 1½, 8.50 B gros. net Merriman's new list, net Zimmerman's, 10½ in B gross \$24.00 Zimmerman's, 9 in B gross \$24.00 Zimmerman's, without screws \$5.00 less	T O G Ja
Barbed, ½ in. and larger	W
Penfield Block Co., Rope and Iron Strap'ddis 40 %	BI
DOLTS.	Ce
Wrought Square dis 55&10 \$ Wrought Square dis 55&10 \$ Wrought Square dis 55&10 \$ Wrt. Shutter, all Iron, Stanley's list. dis 50&10 \$ Wrt. Shutter, Frass Knob, Stanley's list. dis 50&10 \$ Wrrught Shutter, Sargent's list. dis 55&10 \$ Wrought Sunk Flush, Sargent's dis 65&10&0 \$ Wrought Sunk Flush, Stanley's dis 40&10 \$ Wrought Sunk Flush, Stanley's dis 40&10 \$ Wrought B. K. Flush, Stanley's dis 50&10 \$ Carriage and Tire, Common, new list. dis 50 \$ Carriage and Tire, Chiladelphia Pattern. dis 50 \$ Carriage and Tire, Philadelphia Pattern. dis 50 \$	So So So So
Carriage Bolts, Lancaster Bolt Co.	So Ta Ta
Excelsior, Low List dis 608 to 8 to 8 Norway dis 75 % B. B. & W. Carriage old list dis 65 % Tire, American Screw Co's., Phila dis 85 % Tire, "Bay State" dis 70 % new list Eagle Philadelphia Tire Bolt dis 82 % % Stove. dis 50 % dis 60 % Plow dis 50 % to 9 % Machine dis 70 % Borra Machine dis 70 % Borra dis 70 % Borra Machine dis 70 % Borra dis 70 % B	ire ire ire
Plow dis 50&10 % Machine dis 70 % Bolt Ends and Lag Screws dis 70 %	Su
ESC % ID net.	Ra
Q. S. Backus	Pla

Shelf, plain dis 50&10 %	
Shelf, plain	
Union Nut Co	
Wrought Brass	
Fast Joint, Narrow	
Loose Joint, Japanned dis 60&10&10 \$ Loose Joint, Jap, with Acorns dis 60&10&10 \$	
Mayer's Hinges	
Loose Pin, Acorns. dis 60&10&10 & Loose Pin, Acorns, Japanned. dis 60&10&10 & Loose Pin, Acorns, Japanned. dis 60&10&10 & Loose Pin, Acorns, Japid, Plated. Tips. dis 60&10&10 & Wrought Iron.	
Fast Joint, Narrow	
Fast Joint, Broad dis 60&10 % Loose Joint, Broad dis 60&10 %	
Fast Joint, Narrow	
Loose Pin, Light	
Loose Pin, Light dis 60&10 \$ Spring Hinges— Geer's Spring and Blank Butts dis 25 \$ Clarke Hardware '.o's dis 30&10 \$ American Spring Hinge Co's dis 30&10 \$ American Spring Hinge Co's dis 25 \$ Bind Butts, Shepard's, Nos. 50 and 60 d. 570 \$ Blind Butts, Shepard's, No. 950 dis 70&10 \$ Blind Butts, Shepard's, No. 75 dis 70&10 \$ Blind Butts, Lull & Porter dis 75 \$ Blind Butts, Lull & Porter dis 50 \$ Blind Butts, Clark \$, Nos. 1, 3, 5 dis 70&10 \$ Standard Lull & Porter dis 75 \$ Sundard Lull & Porter dis 75 \$ Bow PINS. Humason, Beckley & Co's dis 55&5 \$ Sargent & Co's dis 55&5 \$ Sargent & Co's dis 55&5 \$ Sargent & Co's dis 56&10 \$ Sargent & Co's dis 66&10 \$ Sargent & Co's dis 66&10 \$ Suppose the service of	
Blind Butts, Shepard's, Nos. 50 and 60d.s. 70 8 Blind Butts, Shepard's, No. 050dis 70%5 8	
Blind Butts, Snepard's No. 75	
Standard Lull & Porter	
Humason, Beckley & Co's	
BUTCHER'S CLEAVERS. Humason & Beckley Mfg. Codis 25 % Bradley's	
Humason & Beckley Mfg. Co. dis 25 % Bradley s. dis 25 % Beatty s. dis 25 % Beatty s. dis 25 % 5 f 7 % \$ \$10.00 21.50 24.00 27.00 30.00 33.50 36.50 CAN OPENERS. American \$12.00 27.50 24.00 27.00 30.00 33.50 36.50 CAN OPENERS. American \$12.00 27.50 24.00 27.00 30.00 30.50 30.50 % No. 4. French \$12.00 27.00 30.00 30.50 30.50 % No. 5. Iron Handle \$12.00 27.00 40.50	
CAN OPENERS. American	
No. 4, French	
Sprague, No. 1, \$2; No. 2, 2.25; No. 3, 2.50; dis 50&10 \$ Universal	
	1
U. M. C., Double W. Proof	
Musket, in 1-10's55c Hicks Ground Edge in Brass Boxes55c CARTRIDGES,	-
CARTRIDGES Rim	
B. B. Caps, Round Balls	-
Rim-fire, 22 short\$5 long\$6,00 32 '' 10 '' 15,30 38 '' 18 '' 18,00 41 '' 15 '' 17,50 Central Fire 32,\$11.00; 28,\$13.50; 41, 15.00; 44,\$19.	1
Central Fire 32, \$11.00; 38, \$13,30; 41, 13.00; 44, \$19.	-
CARDS. Horse and Curry, new list, July, 1881	
CARPET STRETCHERS. Cast Steel, Polished	
CASTERS.	-
Deep Socket	-
CATTLE LEADERS. dis 60&10 g	
German Halter and coil Chaindis 50&10 \$\mathbb{g}\$ Trace, Breast and Faucy	1
German Halter and coil Chaim dis 50&10 % Trace, Breast and Faucy dis 45&5 % Oneida Halter Chain told list' dis 45&5 % Galvanized Pump Chain p % 8c net Jack Chain, Iron dis 60&10 % Jack Chain, Brass dis 50&10 %	-
Jack Chain, Brass	00
Jack Chain, Brass	1
Cotton Fish Lines	0
Nos. 11, 13, 15, 17, 20, dis 33½ % 3.20. 3.60. 4.00. 4.50. 5.25. dis 33½ % CHISKLS.	Like G.
Socket Framing, Crossman. dis 65&5 % Socket Framing, P. S. & W. dis 70&10 % Socket Framing, Douglass' dis 70&10 % Socket Framing, Douglass' dis 65&5 % Socket Firmers, Crossman. dis 65&5 % Socket Firmers, Ohio Tool Co. dis 66&10 % Socket Framers, Douglass' dis 70&10 % Socket Framers, Douglass' dis 70&10 % Tanged Firmers, Butcher's dis 40&45 % Langed Firmers, Butcher's \$5.0008\$5.25 to & L. Merrill's Socket and Framing Chisel. dis 65&10 %	EN
Socket Firmers, Crossman	N A
Socket Corner	V
I. Merrill's Socket and Framing Chiseldis 65& 10 \$ CLAMPS.	VV
fron, Adjustable, Stearns dis 20&10 %	L
Norway or Best dis 60% s	I
Conestogodis 60&10 %	T
Racking, new list, July 10, 1880dis 50&10 %	FF
Ale and Beer, new list, July 10, 1880 dis 50&10 \$	SiR
arker'sdis 45 %	E
with the state of	

TOTOLOGICO RECORDI	
Dividers	4
Dividers	
Cast Steel. CROW BARS. B b 6c Iron, Steel Points Ph 4c CURLING IRONS, 4c.	
CURLING IRONS, &C. dis 10 % Curling Tongs. dis 20 % Curling Tongs. B doz \$3.65, dis 10 % Pinching Irons. B doz \$7.50, dis 20 %	
CURLING IRONS, 4c. 4, 5, 4, in., \$1.80, 2.00, 2.50	
Association (Table)	
Embossed Gilt	
Torrey's Rod, regular size, \$\frac{1}{2}\$ doz., \$\frac{2}{3}\$. dia 408/10 \$\frac{2}{3}\$ Gem (Coil): No. 1, Large Japanned	
8 doz 2,30; 6 doz \$3,30 dis 508 to \$ Hercules	
Crossman's No. 1	
Adjustable Handle	
RGG BEATRES. Dover	
Regular numbers	
Kettles	
Door Lock Same discounts as Door Locks Brass Thread dis 25 % Wood dis 25 %	
Escutcheon Pins	
E. M. Boyuton's	
Knox, 4½-inch Rolls	
Lawson & Brenizer dis 50&10 ≤ Remington dis 50&10 ≤ Sheble & Fisher dis 50&10 ≤	
Burnished list as follows	
Marking, Stanley's dis 50% to % Marking, Chapin's dis 55% to % Wire dis 10% to % Wire, Disston's dis 20%	-
Nail and Spike. dis 40 % "Eureka" (Jimlets. dis 50 % "Diamond" (Jimlets. dis 50 % Double Cut, Shepardson's. dis 50 % Double Cut, Hartwell's. dis 50 % Double Cut, Ures'. dis 30 % Double Cut, Douglaus. dis 33/5 % "Reel". "Pi gro. \$10.00, dis 25 %	
Tinned and Enameled	111111
GRINDSTONE FIXTURES. Sargent's Patent	11111

5 %	Maudale's discording
0 %	HAMMERS
0 %	Warner & Noble's dis 5 5 Kip's or Selsor's dis 20 5
6c 4c	Yerkes & Plumb
0 %	Nos 0 1 2 3 4 Per doz. \$0.80 1.00 1.18 1.35 1.50 dis 55&10 5
2 8	Roggin's Latches & doz 35c.@40c. net Bronze Iron Drop Latches doz \$0.90@1.10
0 %	Jap'd Store Door Handles-Nuts, \$1.25; Plate, \$2.00; no Plate, \$1.10
5 %	Barn Door
5%	Surface Chest
5%	Liftingdis 50&10 5
iet	Lippincott Cross-Cut Saw per pair
net	Brad Awl # gross, \$3.00, dis 20% to 5
iet	Auger, assorted, \$\partial \text{gross}
net o %	Patent Auger, Ivesdis 25 3
et	Rarn Door
3 %	White Mountain, per doz
*	HANGERS. dis 60% to 3
1 %	Rarn Door, New England
	Warner's
3 %	Shingling, Nos. 1 2 3
1 5	Claw, Nos. 1 2 3
- 70	Hammond's new listdis 45 % Blood'sdis 35 %
18	Hunt's
1 %	Cohoes Bench Broad Adzes40 5
Z.	Finished in red, per doy
1 1 1	Plate Hinges 18,108 12 in
X	Plate Hinges 18,108 12 in 55c. 10 10 "Providence" over 12 45c. 10 10 Screw Hook 18, 10, 12 in 4 c. 10 10, and Strap. (14 to 36 in 3 c. 10 10 10 10 10 10 10 10 10 10 10 10 10
18	
N N	Crown spring hinges, for screen doors, dis 60 %; for for solid doors, single action, dis 45 %; for solid doors, double action, dis 55 %. Crown Screen Door Latch
MMM	Crown Screen Door Latch gross \$12, dis 55 \$
5 5	doz \$9; 3-inch, \$12
8 8	American Cake Mixer, No. 6each \$3.50, dis 20 \$
	A. M. Co. Clothes Wringer, No. 2 rolls,
% 00 00	19X1%, \$48
	Heavy Welded Hook 14 in. & up, \$6 pt 100 fb. ; 20 \$
60 40	Screw Hook and Eye 124 in 9c. dis
N N	Wrought Strap & T list, Dec. 20, '77, dis for rolling &
NAN	Planters
8	Planters
ks	Grub
×	Hick's Pat. Solid C. S. Scovill Patterndis 60&5 \$\mathbb{g}\$ Hubbard, Bakewell & Codis 50&70 \$\mathbb{g}\$
×	HORSE NAILS.
7 7	Plain, w b300 270 250 240 230 220. dis 20k 10 \$
M M	Clint'n, P'n, " 23c are soc 19c 18cdis 20&10 \$
MMM	Essex, & th31c 28c 26c 25c 24c 23c. dis30 \$
MMM	Saranac "a6c 23c 21c 20c 19c 18cdis 20 \$
	Ausable: Nos. 5 6 7 8 9 10 Plain, 30 h 300 270 ago 244 230 ago. dis 200 10 5 Finish'd 3 h. 300 270 ago 244 230 ago. dis 200 10 5 Clint'n, 3 h 300 ago 210 ago 210 ago. dis 200 10 5 Clint'n, Fin'd 240 ago 210 200 190. dis 200 10 5 Essex, 3 h 310 ago 210 200 190. dis 200 10 5 Futnam 270 246 ago 210 200 190. dis 200 5 Saranae 200 290 210 200 190 180 dis 20 5 Globe, 200 290 210 200 190 180 dis 20 5 Globe, 200 290 210 200 190 180 dis 20 5 Champlain
N H C	
L	Forged # 10
N N	Bridgewater240 210 Igc 180 170 160. dis 2464 5
AMM	New Haven33c 30c 28c 27c 26c 25c dis 30&10 5 Capewell31c 26c 26c 25c 24c 23c dis 20&10 5 NORSE SHORS.
ar ar	Burden
S	Light Medium and Heavy When to Bake
0	Mule Shoes. Pkeg \$4.87½ Walker's—Forged: (Light, Medium and Heavy.) Horse. Pkeg \$3.87½
M M	Horse
200 200	Mule
% et	Excelsior
70	ICE CREAM PREFZERS.
5	Peerless—3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart, \$5; 10 quart, \$12. The Grooch Patent "Giant"—14 quart, \$50; 12 quart, \$50; 23 quart, \$40; 42 quart, \$45;
×	"Giant"—14 quart, \$20; 18 quart, \$25; 21 quart, \$30; 25 quart, \$35; 32 quart, \$40; 42 quart, \$45.
76	American-2 quart, \$2.75; 3 quart, \$3.25;
%	4 quart, \$3.75; 6 quart, \$5 eachdis 45 \$ Crown, single action, 2 quart, \$3.75; 3 quart,
0	Crown, single action, 2 quart, \$3.75; 3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart, \$9; 10 quart, \$11; 14 quart, \$14
× .	Crown, double action, with crank, 8 quart, \$10.50; 10 quart, \$13; 14 quart, \$16.50; 18 quart, \$21; 24 quart, \$25. With fly wheel,
5	
X	18 quart, \$25: 24 quart, \$30: 30 quart, \$37.50
8	\$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart,
8	\$9: to quart, \$11; 14 quart, \$14dis 43 \$ Gem, double action, 2 quart, \$3.75; 3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart,
2 2	\$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart, \$9; 10 quart, \$11; 14 quart, \$14
	\$9; to quart, \$11; 14 quart, \$14dis 55 % Crown Ice Chipper
	Carriage, (Jap'd 80 c & gross)
200	Hemacite Door Knobsnew list, dis 35&3 & Door Mineral
	Door Mineral Door Por. Jap'd Door Por. Plated. Same discounts as Door Locks.
	Door Por. Plated
5	Furniture, Wood Screws
5	
	Shutter, Porcelain

500	BALTI
LAWN MOWERS. Huckeye, Easy and Excelsior, new list dis 30	Enterprise Mfg. Co
Lines Lines	Boynton's Lightning Co Boynton's Circular and Boynton's Ice
Bradford	
Wm. Wilcox & Co	White
Lignumvitædis 30 %	Aiken's Genuine
Dixon's (P. S. & W.) Nos. 1 2 3 4. Perry's, Nos. 1 2 3 4 4 gr'd 5 gr'd Each	Disston's
Wieser's No. 55 Par 35 45-dis 50&to&2 5	Fairbanks'
Stebbins Patternsdis 70% to 8 Stebbins Genuinedis 67½% to 8 Stebbins Tinned Endsdis 40% to 8 Chase's Hard Metaldis 50% to 8 Self-Measuring, Enterprise)dis 20 \$	Family Universal. Family Favorite. Family Favorite. Family Turnbull's. Scale Beams, List of Jan SCR Adjust. Box Scraper (S. R Box, 1 Handle. Foot. Ship, common
Weed s	Wilson Mfg. Co
Square Nuts	Clark's Patent
Zinc and Tin	Shepardson
Per dozen 75 cts. net PLAITING MACHINES. Astor Plaiting Machineeach \$15, dis 20 % Crown Plaiting Machines	Round Head Brass Flat Head Blued, add 2½ Brass and Silver Capped. Japanned, list of Plain Sc
Bench, First Quality	Coach, Patent Gimlet Poi Coach, Common or Lag. Machine, Flat Head, Iron Machine, Round Head, Iron Bench, Iron Bench, Wood, Beach Bench, Wood, Hickory, Hand, Wood. Hand Rail, Sargent's. Hand Rail, Humason, Bet Hand Rail, Humason, Etale User, Williams
Plane Iron, Onto 1001 Co	Hand Rail, Humason, Bee Hand Rail, Am. Screw Ce Jack (Wilson's) SCREEN FRAMES Standard Window Scree Door Window Corne Door
PLUMBS AND LEVELS. Disston's	Door Latches, 1 Porter's Patent Window No. 20. No. 21. No. 22.
Sliding Door, Wrought Brass	No. 23
Small, Med. Large. Per 100 feet\$2.10 2.70 .30 net. RIVETS.	No. 1½. " " "
Iron and Tinned, new list, Dec. 10, 1881	No. ½. " Bronze No. 4½. " Bronze Bronze Door,"
Stair, Brassdis 25 % Stair, Black Walnut	No. 3. "
Chapin's Boxwood Ivory. Standard dis 75 % dis 40&10 % Stanley dis 70&10 % Ivory dis 50 % Stevens & Co. Miscellaneous dis 50 % 10 % SAD IRONS.	American (Cast) Iron
Mrs. Pott's Ironsdis 35 % Enterprise Star Irons, new list, July 20, '82dis 35 % Comb'd Fluter and Sad Iron? doz \$15.00, dis 15 % Common Sad Irons? doz \$15.00 dis 25 %	Sliding Door, M. W. & Co. Sliding Door, R. & E. list. Sliding Door, Patent Rolle Sliding Door, Pt. Roller, H Sliding Door, Russell's Ant
Saeder & Adamson's Fliut, 4, 25/ 8, 3, 5,00 p r'm. Saeder & Adamson's Fliut, Assort d 4,75 p r'm. Saeder & Adamson's Star	Sliding Door, Russell's All's Ant Also see I SHOVELS AN Ames, New List, July 1, 18 Griffiths Remington's (Lowman's Pa Rowland's Kimballs
Patent Pt, 17c@18c. net illver Braided Lake Hemp Pt, 50c, dis 10 % ilver Braid, Lake White Cotton, Pt, 50c, dis 10 %	Lippincott, new list. Hussy, Rins & Co SPOKE TR Bonney's Stearns Ives'No. 1, \$15; No. Douglass'
SASH WEIGHTS.	Wm. Rogers Manf. Co Holmes, Booth & Hayden Brown Bros

Interlayer, Early and Carbon	500	BALTIMORE MANUE
	LAWN MOWERS. Buckeye, Easy and Excelsion, new list,dis so 9	Enterprise Mfg. Co
Description	Lines	SAWS. Boynton's Lightning Cross Cuts, new listdis 40 % Boynton's Circular and Mill
Semential Washing Seme	Norwalk Norwich Norwich P. & F. Corbin Russell & Erwin Mallory, Wheeler & Co	Hubbard, Bakewell & Co., Mill Saws. dis 408.5 & Peace Circular and Mill. dis 40.5 & Peace Care Land, Panel and Rip. dis 25 & Peace Cross Cuts. dis 35 & Peace Band Saws, all widths. dis 10.5
Each S. S. W. No. 20 15 15 15 15 15 15 15 1	Scandinavian, "Norwich"dis 50&10 % MALLETS. Penneld Block Co., Apple, Hickory and	SAW SBTS. Stillman's Genuine, ₩ doz \$3.50 and \$5.50dis 10 % Stillman's Initiation
Stebbins Genius dis 59% of Stebbins Genius dis 59% of Stebbins Genius dis 59% of Chare's Hard Metal dis 96% of Chare's Hard Metal dis 96% of Lincoln's Pattern dis 50% of Lincoln's Pattern di		Aiken's Imitation
Chance's Hard Mend. Most States		Family Universal dis 50 % Family Favorite dis 30 % Family Turnbull's dis 30 %
Condem Mig. Co. Autor Part Mig. Co.	Chase's Hard Metal	Adjust. Box Scraper (S. R. & L. Co.) \$6.50, dis 20 & 10 & 20 & 10 & 20 & 20 & 20 & 20 &
Rate and Cupper of the prinking months and of \$5, dis 10 of process. Maleable High Prinking months and process. Per dozen. Prinking Machines. Associated by the prinking Machines. Beach, Scool Quality. Give a prinking Machines. Beach, F. PLANES AND PLANE HOSS. Black P. FLANES AND HOSS. Black	NUTS AND WASHERS. S c off list.	Shepardsondis 25 %
Sench, First Quality	Malleable (Hammer's)	SCREWS. SCREWS. Glis 70 Flat Head Iron, list Dec. 27, '82 dis 50 Flat Head Iron dis 50 Flat Head Brass dis 50 Flat Head Blued, add 2½ \$ to net of invoice. Flat Head Blued, add 2½ \$ to net of invoice. Flat Head Blued, add 2½ \$ to net of invoice. Glis 40 Flat Head Blued, add 2½ \$ to net of invoice. Glis 40 Flat Head Blued
SCREEN FRAMES AND NITTURES. STAND NIPPERS. Mis 39 Standard Nippers. Mis 30 Standard Rule Co.	6 in., \$6: 10 in. \$8 each. PLANES AND PLANE IRONS. Bench, First Quality	Coach, Common or Lag. dis 60&10&10 & Bed dis 10 & Machine, Flat Head, Iron. dis 50 & Machine, Round Head, Iron. dis 50 & Bench, Iron. dis 50 & Bench, Iron. dis 50 & Bench, Wood, Beach \$0.00 & \$0.00
Stanley R. & L. Co. 's Part. Adjustable dis 65&10 % Chapin's Patent Adjustable dis 65&10 % Chapin's Patent Adjustable dis 65&10 % Chapin's Patent Adjustable dis 65&10 % Standard Rule Co. 's Non-Adjustable dis 65&10 % White Walnut. Standard Rule Co. 's Non-Adjustable dis 65&10 % Pocket Levels dis 65&10 % Pocket	Button's Patent dis 33½ % Hall's Pat, Compound Lever Cutting Nippers, No. 2, 5 in. \$13.50; No. 4, 7 in. \$21 \to doz. dis 25 \tilde{g} Gas Pliers. DIMBS AND LEVELS.	
Sliding Door, Bronzed Wr. Iron. \$\frac{1}{2} \frac{1}{2} \frac	Stanley R. & I. Co.'s Pat. Adjustabledis 65&10 % Stanley R. & L. Co.'s Non-Adjustabledis 65&10 % Chapin's Patent Adjustabledis 65&10 % Chapin's Non-adjustabledis 65&10 % Standard Rule Co.'s New Adjustabledis 65&10 % Standard Rule Co.'s Non-Adjustabledis 65&10 %	Porter's Patent Window and Door Screen Frames: PRR DOZ. SETS. In Im, Bl'k White. Walnut. No. 20. \$2.75 \$3.25 \$8. No. 21. \$2.25 \$4.00 \$1.00
Small Med. Large. Sp. 10 2-70 30 net.	Stiding Door, Wrought Brass	No. 30
BOXWOOD. IVOTY. Chapin's Boxwood. Ivory. Standard dis 75 % dis 40%10 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 70%10 % Ivory dis 50 % Stevens & Co. dis 50 % Ivory dis 50	Small Med Large	No. 1½. " # doz sets, Bronzed, \$3.25; Nickel, \$7.50 # doz sets, Bronzed \$4.00; Nickel, \$8.00 * Or door, # doz sets, Bronzed, \$1.20; Nickel, \$3.00 * Or Door, # doz sets, Bronzed, \$2.00; Nickel, \$4.00 * Or Door, # doz sets, Bronzed, \$0.00; Nickel, \$0
Enterprise Star Irons, new list, July 20, '82dis 35 % Comb of Fluter and Sad Iron \$\psi\$ doz \$15.00, dis 15 \$\frac{1}{2}\$\$ Common Sad Irons \$\psi\$ doz \$25.00, dis 15 \$\psi\$ Silding Door, R. & E. list dis 60&10&2 \$\psi\$ Silding Door, Patent Roller dis 60&10&2 \$\psi\$ Silding Door, P	RULES.	American (Cons) Your
Also see Hangers. Raeder & Adamson's Flint, a, 2, 5, 5, 7 m. Raeder & Adamson's Flint, Assort'd 4,75 p'r'm. Raeder & Adamson's Star. 3,75 p'r'm. Raeder & Adamson's Star. 3,75 p'r'm. Raeder & Adamson's Star. 3,75 p'r'm. Raeder & Adamson's Emery p'r'm \$6,50(£11.50) I. Bartle's Sand, Flint and Emery Paper. "iis 30% 5 g Sash Cord. Common. p b, 14c. net silver Braided Lake Hemp. p b, 17c(£18c. net silver Braided Lake Hemp. p b, 50c. dis 10 g Silver Braided Lake White Cotton, p b, 50c. dis 10 g Silver Braided Lake Drab Cotton, p b, 50c. dis 10 g Silver Braider & Adamson's Reterior dis 50 g Silver Braider &	Enterprise Star Irons, new list, July 20, '82dis 35 5 Comb'd Fluter and Sad Iron' doz \$15.00, dis 15 5 Common Sad Irons 24c 2 th	Sliding Door, M. W. & Co., List
Stearns 2 doz \$9, dis 20\$10 \$ Stearns 2 doz \$10 \$ Stearns 2 doz \$1	Baeder & Adamson's Flint, a 24% 3, 3,00 pr m. Baeder & Adamson's Flint, Assort d 4.75 pr m. Baeder & Adamson's Star. 3,75 pr m. Baeder & Adamson's Emery pr m \$6,500 m. 50 J. Bartle's Sand, Flint and Emery Paperdis 30% 5 pr m. SASH CORD.	Also see Hangers. SHOVELS AND SPADES. irifiths
Italian Hemp, 34 cts	Patent Patent Ph, 1706188c, net silver Braided Lake Hemp Ph, 50c, dis 10 Silver Braided Lake White Cotton, Ph, 50c, dis 10 Silver Braided Lake Drab Cotton, Ph, 50c, dis 10 Silver Lake Cable Laid, Bengall Unbleached Hemp, 17 cts dis 10 Silver Lake Cable Laid, Bengall Unbleached	Appincott, new list dis 20 Clussy, Bins & Co dis 15 %
	Halian Hemp, 34 cts	Vm. Rogers Manf. Co

SILVER PLATED HOLLOW WARE.	WIRE.
Wm. Rogers Manf. Co. dis 40, 15&5, 58	Bright and Annealed. Nos. 06918, dis 50&10 8 Bright and Annealed. Nos. 19696, dis 60&10 8 Bright and Annealed. Nos. 19696, dis 50 8 Coppered. Nos. 0618, dis 50 8 Galvanized, Nos. 0 to 18 Market list dis 40 8 Tinned, Nos. 0 to 18 dis 60 8 Tinned Broom Wire, Nos. 18 to 25. dis 60 8 Annealed Fence, Nos. 8&0 dis 55 8 Annealed Grape. Nos. 10 to 14 dis 50 80 10
Irondis 50 %; full cases, dis 50% 10 %	WRENCHES.
Iron	American Adjustable
TAP BORERS.	
Common and Ring	MISCELLANEOUS. "Diamond" Vegetable Grater
	Loop Harness Snapsdis 50 %
THERMOMETERS. THERMOMETERS. A dis 75% 10 % Storm Glasses	Martingale Loop Snaps .dis 50 € Round Eye .dis 50 € Round Eye Swivel .dis 50 € Loop Swivel .dis 50 € Open Eye .dis 40 € Strap Eye .dis 40 € Leather Horse Ties .dis 35 € Snap and Thimbles .dis 50 € Thimbles .dis 50 € Hammock Ropes .dis 60 € Hammock Sopes .dis 60 €
Rat, "Decoy" B doz \$10.00, dis 10 %	Cattle " " Hempdis 50 %
Delusion Mouse, per doz. \$1.50 TROWBLS. Lothrops' Brick and Plastering dis 25 \$ Reed's Brick and Plastering dis 25 \$ Disston's Brick and Plastering dis 20 \$ Disston's Brick and Plastering dis 20 \$ Clement & Maynard's dis 20 \$ Worrall's Brick dis 20 \$ Brades & Walby's dis 20 \$ Garden dis 55 \$ TRUCKS (WAKEHOUSE, 4C.)	" " " Jute. dis 50% 10 % Cattle " " Hemp. dis 50 % " " " Jute dis 50 % " " " Jute dis 50 % " " " Jute dis 50 % Picket Pins dis 40 % Horse Tie. O. K. dis 50% 10 % Cattle " dis 50% 10 % Web Halters dis 50% 10 % Rope " dis 50% 5 % Driving Reins dis 40 % Weight Cords dis 35 % Hitching Weights dis 35 % Breast Chains dis 35 % Breast Chains dis 35 %
Handy Truck	" dis 35 % " dis 35 % " dis 35 % Post Chains dis 50 % rein Chain dis 50 % Halter Chain dis 50 % Rein Chain dis 50 % Martingale Chain dis 50 % Martingale Chain dis 50 % Lytle Bull Leads dis 40 %
VISES.	Rod Pose Hitcher dis 50&10 % Lytte Bull Leads dis 40 % Bull Snaps dis 40 % Soldering Irons dis 35 % "Coppers dis 35 % Hitching Cords dis 35 % Halter Leads (Hemp) dis 50 % "(Jute) dis 50 % Horse Tail Holders dis 20 % "New" Patent Round Eye Snap dis 35 % "New" Patent Snap dis 35 %
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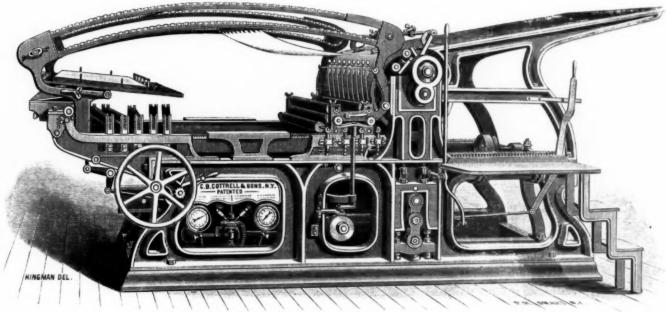
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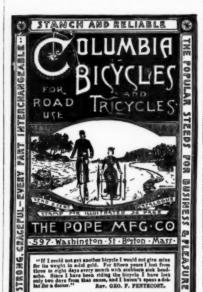
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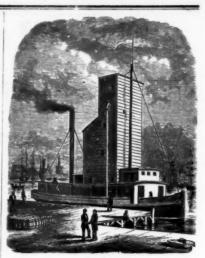
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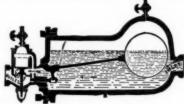


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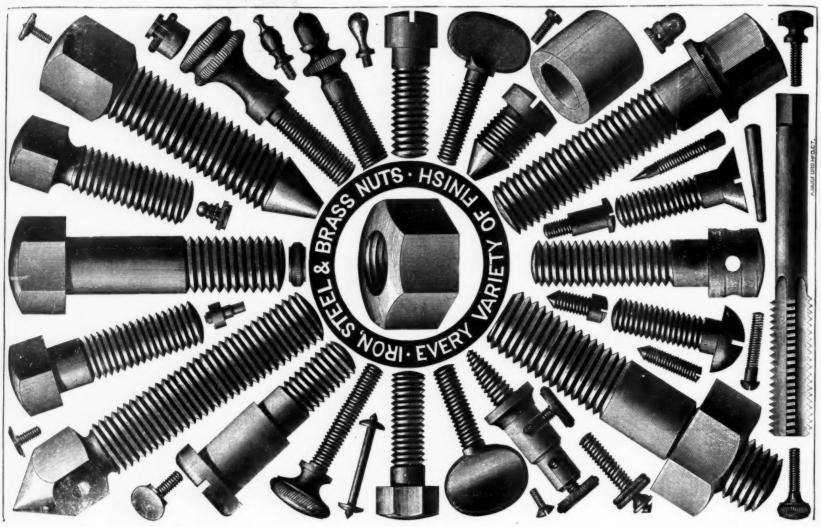




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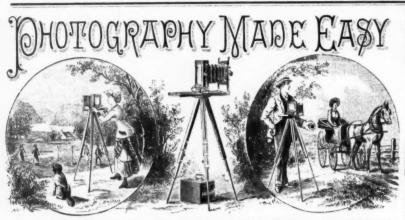
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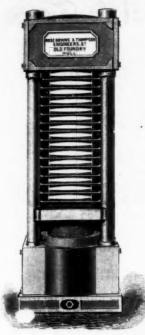
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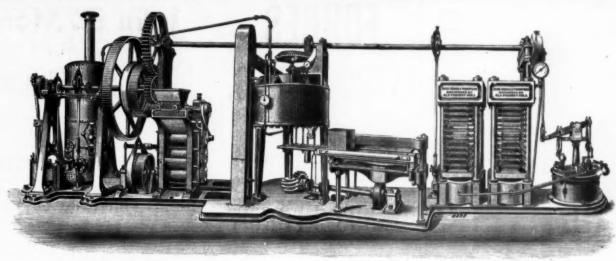
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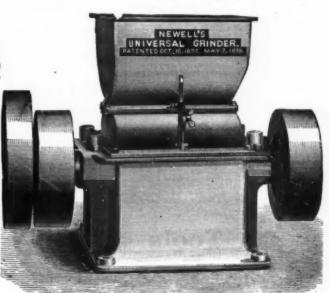
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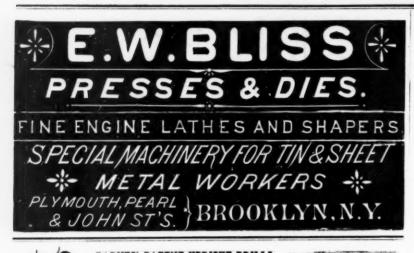
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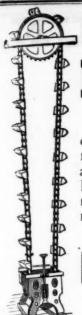
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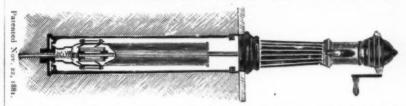
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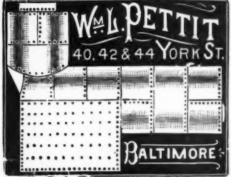
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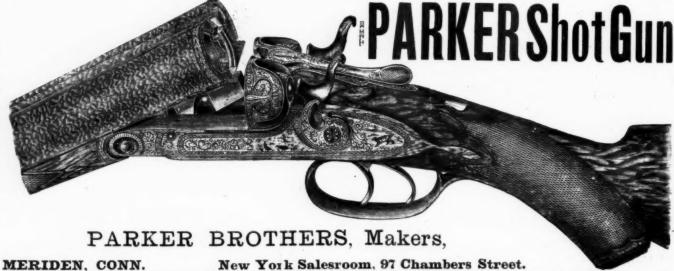
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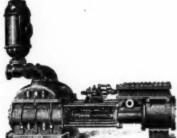














ESTIMATES



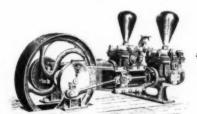
APPLICATION

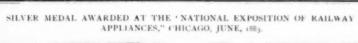
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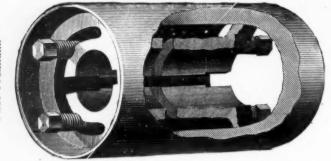
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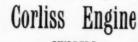
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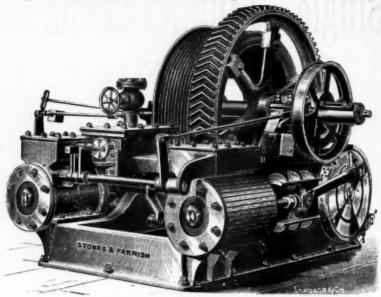
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